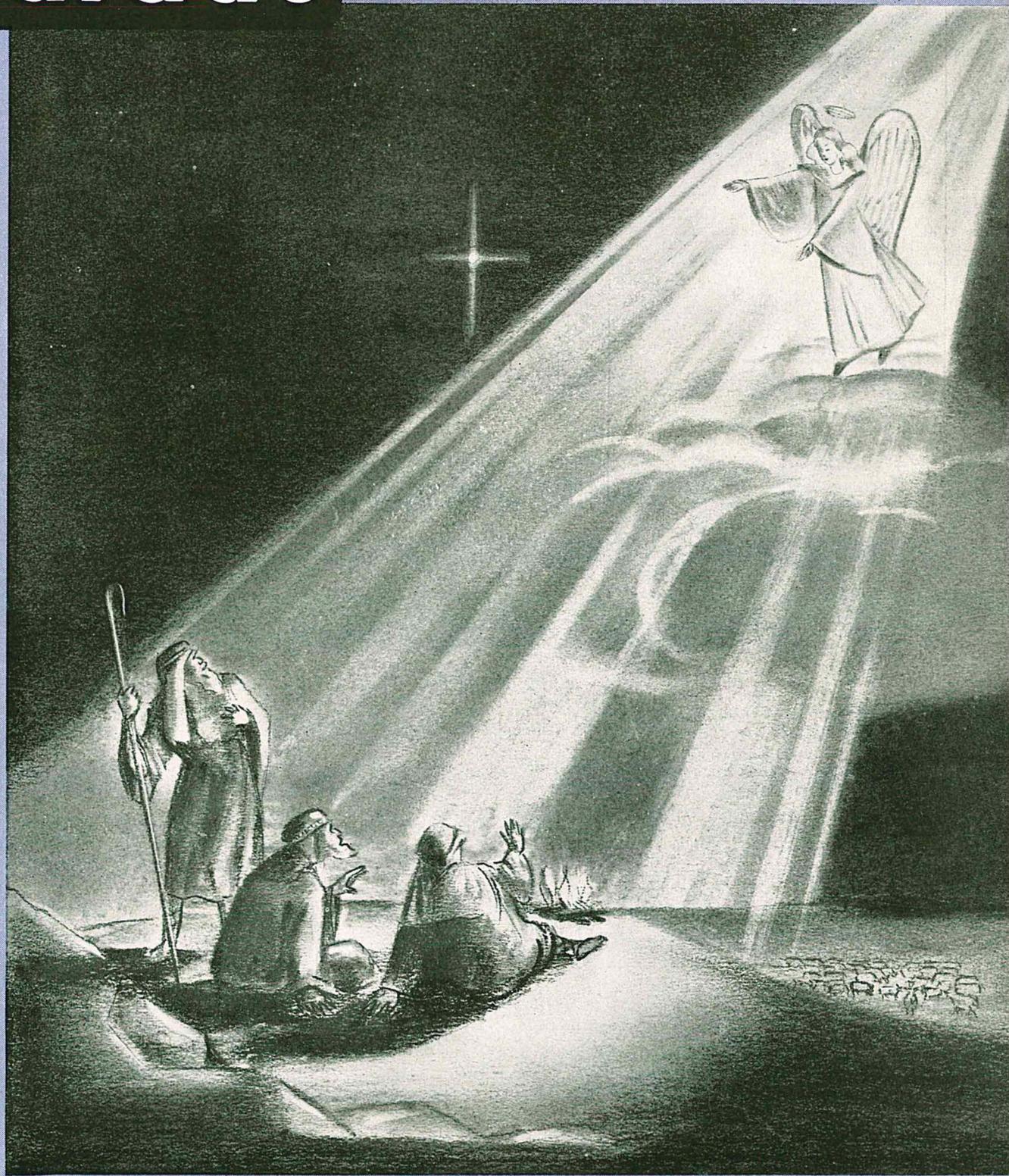


AMERICAN Parade

VOL. 5 NO. 12

DECEMBER 1946



AMERICAN PARADE

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

Vol. 5, No. 12 December 1946

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REPORTERS

Paul Bessmer, Research
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Sidney Brugh, Machine Shop, night
Bernard Byrd, Steel Shop
Alba Ciavatta, Shipping
Charles W. Cole, Jr., Steel Shop
Edward V. Coleman, Foundry
Julia Deak, Steel Shop
Mildred Fore, Office
Harry Hixenbaugh, Engineering
Lee Kelly, Steel Shop
Paul Kizer, Steel Shop
Robert Lenson, Steel Shop
William Minnes, Mach. Shop, night
Jepthah Minnes, Steel Shop, night
Robert Powell, Stock Room
Carl Ritter, Demonstration
Greg Thompson, Machine Shop
Jean Tracy, Research

The Cover

And there were in the same country shepherds abiding in the field, keeping watch over their flock by night.

And, lo, the angel of the Lord came upon them, and the glory of the Lord shone round about them: and they were sore afraid

And the angel said unto them, Fear not: for, behold, I bring you good tidings of great joy, which shall be to all people.

For unto you is born this day in the city of David a Savior, which is Christ the Lord.

And this shall be the sign unto you; Ye shall find the babe wrapped in swaddling clothes, lying in a manger.

And suddenly there was with the angel a multitude of the heavenly host praising God and saying,

Glory to God in the highest, and on earth peace, good will toward men.

St. Luke II, 8-14



Parade Reporters



"What is your favorite Christmas memory or experience?"

FRANK OVERPECK—steel shop—"When I was about 11 years old I had been sick for nearly a year; that Christmas I was well enough to get up and see all the presents, the decorated tree and room."

GRANNIS GARBER—demonstration—"In 1939 I bought electric trains for my nephews and had mother and father here from Alabama for Christmas."

HARRY WEAVER—steel shop, night—"I received a nice, new pair of ice skates for Christmas and, of course, had to try them out right away. The ice on the river was not thick enough and gave away with me. I got plenty wet but did not lose my skates."

JAY PENLAND—steel shop, night—"My most pleasant Christmas was in 1945. I went to Elkhart and got my son Jack who had just returned from 36 months in Tinian Island. He was the last of four sons in the service to arrive home for the holiday."

ROBERT WHITE—steel shop, night—"Christmas time brings to my mind how terribly home sick I was in France on Christmas day 1917. I would have given anything to be back home in Alabama."

WILBERT L. MITCHELL—steel shop, night—"I received a new suit of clothes for Christmas and found a new quarter in the pants pocket. The suit had straight legged knee britches with 2 or 3 buttons sewed along the side of the knee."

WILLIAM WILSON—steel shop, night—"I received a Parker pen and pencil set from my employer, American Life and Accident Insurance Co., while I was their agent."

LESTER BLAKE—steel shop, night—"My favorite Christmas memory is of December 25, 1918, when I arrived home from the Army and saw my daughter for the first time, she was then over a month old."

JOHN PETERSON—steel shop, night—"My two brothers and I trapped animals and sold the pelts to buy my father a mole-skin jacket for Christmas. When we called him to come to look at it, he was rendering lard. He was so pleased about it that he forgot about the lard and it burned up."

JAMES DAVIS—steel shop, night—"When I think of Christmas a most unpleasant thought comes to my mind. That of being in the front line trenches Christmas day, 1917. We were in a dugout which was closed up by a German shell and we had to dig our way free."

IRVIN C. KARR—research—"I think my favorite is when my oldest boy woke up to see the Christmas tree all lit up and the many packages beneath it. He was just two and ran about delightedly hollering 'See!'"

HUGH DAVIDSON—engineering—"I got a cannon for Christmas—Mother caught dad and I on the floor shooting the trimmings off the Christmas tree."

What's In It For You?

Question: What is the Credit Union?

Answer: A group of men and women working for American who have joined this organization.

Question: How can one join the Credit Union?

Answer: By paying an entrance fee of 25c, and agreeing to purchase at least one \$5.00 share.

Question: Where does one pay this fee and purchase the share?

Answer: These transactions will be taken care of in the Personnel office.

Question: Who may belong?

Answer: Any employee, member of their immediate family or employee organization of American Wheelabrator & Equipment Corp.

Question: What's in it for one who joins?

Answer: The Credit Union provides a safe place in which to save money.

The Credit Union pays dividends on members shares. Last year the dividend was 3%

The Credit Union loans money to its members in any amount up to \$500.00. The interest is but 1% per month on the unpaid balance.



B. MINNES

J. MINNES

JEPHTAH MINNES, night steel shop reporter, has worked here for five years. For the first year he did sheet metal layout, then was transferred to the metal brake.

After he leaves the plant he likes to garden—vegetables and dahlias usually absorb his interest—and to still fish. Jep enjoys just being out on a lake even if the fish aren't biting.

Mr. and Mrs. Minnes have two children, Frances and Bill.

WILLIAM MINNES, night machine shop reporter, is the son of Jep. Before the war he worked in the machine shop on the file bench where he filed both rough and machined castings.

After working here about 18 months, Bill was sworn into the Navy where he became an Aviation Machinist's Mate stationed at Columbus, Ohio. When he returned to American he was taught to operate the equipment in the machine shop. Bill is married and has a two-year-old daughter, Michele.

High Men on the Sales Staff



John N. Harper

Pittsburgh
101%

JOHN N. HARPER joined American as a sales engineer January 1, 1946, and was assigned to the Pittsburgh area. He studied chemical engineering at Brown University, supplementing this with two years technical and sales engineering training in the steel industry. Before affiliating with our organization, John had several years experience in the marketing of finished steel products. Now he has started to build an outstanding record with American.



Charles L. Benham

Springfield, Mass.
107%

CHARLES L. BENHAM started in this business in 1919 and has been creating records ever since. In these 36 years with this company he has been a service engineer, manufacturing inspector, factory superintendent and sales engineer. For the past 20 years Charlie has been our sales representative in the New England area. His achievement this year is in keeping with his many outstanding records throughout the years.



Joseph P. Underway

St. Louis, Missouri
121%

JOSEPH P. UNDERWAY joined our organization as a service engineer February 24, 1945. Seven months later he was appointed our sales representative in Houston, Texas; and early this year was transferred to a similar assignment in St. Louis. Joe attended Michigan State College and Lewis Institute. Before joining American, he had 20 years experience in all phases of the metal working industry. His record since joining American speaks for itself.

What is a Sales Quota?

By S. S. Deputy, Asst. Sales Mgr.

Adequate sales volume is essential to the success of our business and is the primary responsibility of the sales department. The definition of adequate is a "jack pot" question, which could be answered specifically in a few thousand well chosen words, supplemented by statistics, charts, and exhibits.

Eventually, it boils down to the elemental fact that we must sell so many of this and so much of that if the company is to remain in business, provide employment for its staff of workers and earn a profit. This objective—how much must be sold—is commonly referred to as a "quota" and for simplicity and uniformity is usually shown as a percentage figure.

Each of our sales territories is given a proportional part or share of the total an-

ticipated sales volume and this allotment in turn becomes its quota. The share assigned to each territory is based on the estimated potential market in that area and may be adjusted periodically should market conditions warrant.

As you know, we have a fine organization in the field selling our products. Some of these men are achieving outstanding selling records. In nine months, the three men pictured above sold more than their full year's quota! That is a real achievement.

Before the year ends we are confident that many more of our representatives will join this group. Congratulations to Joe Underway, Charlie Benham and John Harper. The figure under each man's picture is the percentage of his yearly quota he had sold in nine month's time.

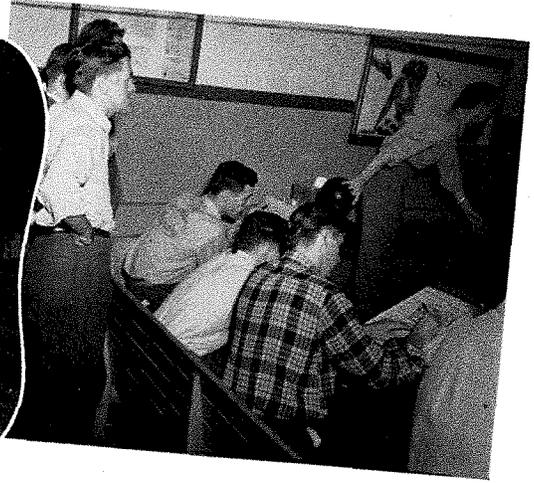
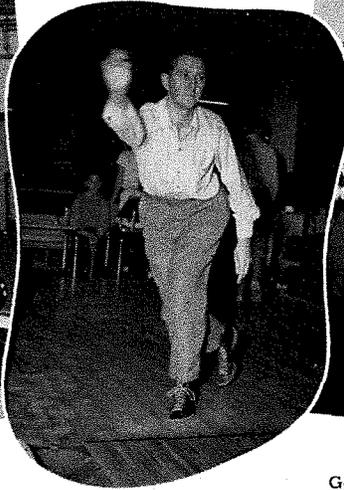


JANUARY CALENDAR

- 1 New Year's Day—Holiday
- 6 Safety Committee—3:30 PM, Stanley Krzeszewski's Office
Labor Union, Local No. 995, UAW-CIO
Day Shift: 5:00 PM
Night Shift: 2:30 PM
- 7 Bowling—6:30 PM, Rose Recreation
Athletic Assn. Board, 4:30 PM
- 13 Credit Union—2:00 PM
- 14 Bowling—6:30 PM, Rose Recreation
- 20 Safety Movies and Talk—12:15 PM, Steel Shop
Safety Committee—3:30 PM, Stanley Krzeszewski's Office
- 21 Athletic Assn. Board—4:30 PM
Bowling—6:30 PM, Rose Recreation
- 28 Bowling—6:30 PM, Rose Recreation

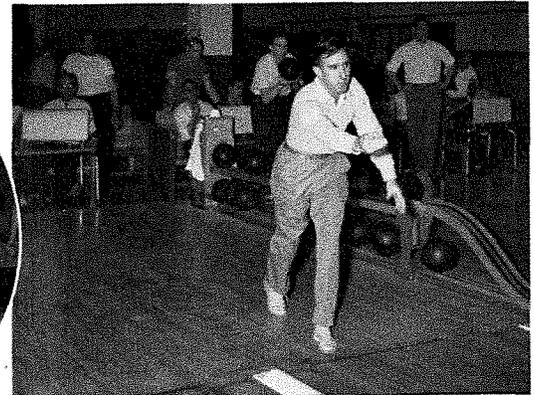
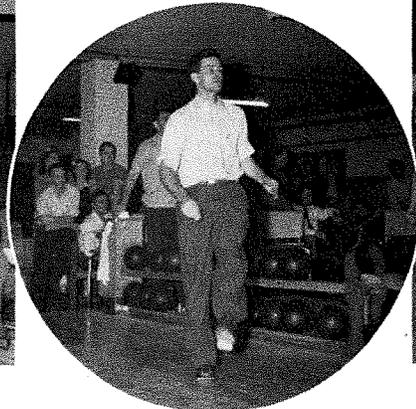
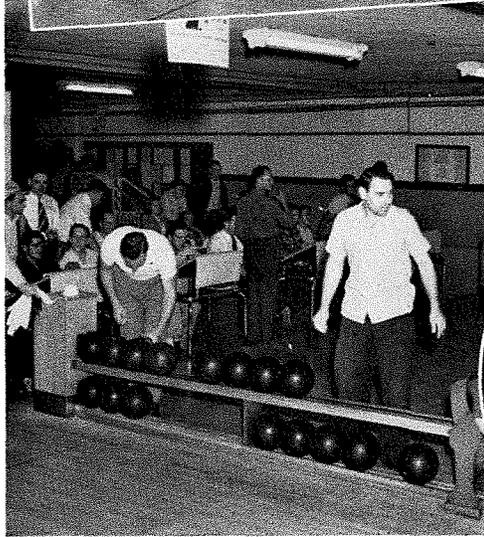
BOWLING

Thirty American workmen hit the maples every Tuesday night at 6:30 in the Rose Alleys. They vary from rank beginners to Gene Dickerson who rolled a 241 the night the pictures were taken.



Beautiful form, Bob Gray!

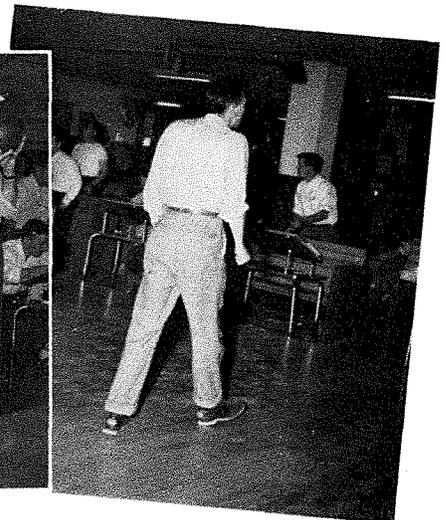
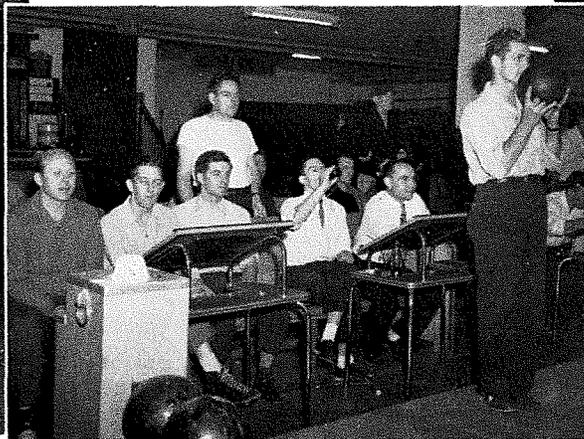
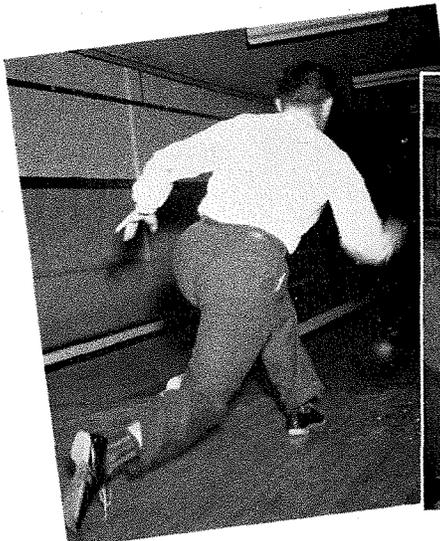
Gene Kempner and Ed Stoler keep score. Emile DeVreese watches Walt Schamel bowl.



Ken Barnes selects his ball while Chuck DeCraene waits for his to come back for the second throw.

Thought this was bowling, but George McNeile gets his kicks in anyway.

Gene Dickerson makes it look easy to roll a 241—the highest score so far this year.



This is the beginning of a strike for John Dorogi. Honest!

Is there Chanel No. 5 on that ball, Vern Valentine? Paul Bessmer, Bob Gray, George McNeile and Ernie Young watching. James Curtis and Willard Flowers wearing ties, and it doesn't seem to hurt their scores at all.

How not to bowl — Walt Schamel walks away from a bad one.

Our Safety Record

LOST TIME CASES	Oct	Yearly Total
Steel Shop.....	2	41
Machine Shop.....	0	13
Foundry.....	3	16
Maintenance.....	1	6
Stock Room.....	1	7
Shipping.....	0	2
Demonstration-Research.....	0	0
Office.....	0	0
	7	85

LOST TIME ACCIDENTS WERE:

- Steel Shop—
 - 17 days lost through infection developing from steel splinter.
 - 17 days lost because of surgery required for a leg injury.
- Stock Room—
 - 1 day lost from a hand injury.
- Maintenance—
 - 3 days lost because of contusion of foot.
- Foundry—
 - 6 days lost because of a burn on foot.
 - 2 days lost because of foreign body in eye.
- 12 days lost from mashed thumb.

Total 58 actual man days lost.

INJURY CASES	Oct.	Yearly Total
Steel Shop.....	147	795
Machine Shop.....	74	437
Foundry.....	20	114
Stock Room.....	14	89
Maintenance.....	7	76
Demonstration-Research.....	3	48
Shipping.....	8	37
Office.....	9	17
	282	1613



To Each His Own

By Kathryn Glass, R. N.

- One pair of eyes for seeing
- One pair of eyes for reading
- One pair of eyes for working

Your quota for vision is one pair of eyes! Safeguard them! Be considerate of them.

If the rule which says you must wear safety glasses in the performance of your job seems unnecessary, pause and think . . . Are you a candidate? Have you ever wondered what it would be like to live in a world of total darkness? Probably not . . . it is an unpleasant thought, but nonetheless one to which you should give consideration.

The man who shrugs his shoulders and fails to use eye protection around hazardous operations because "accidents always happen to someone else", is a likely candi-

date for a course in Braille, a white cane and a seeing-eye dog.

By sticking to it, a man may learn to walk, run, and even dance on an artificial leg and perform many tasks with an artificial hand, but modern science has never designed an artificial eye to contain that precious sight sense.

It is possible for a man to grow new hair, new fingernails or toe nails, and he may even have three sets of teeth in a lifetime, but he will only have two eyes.

In a manner of speaking, a man's eyes belong to his family as well as to himself, since the family is dependent upon the continued competency of his eyes for a large measure of comfort and support.

A foreign body in the eye sets up an immediate irritation, which may be followed by inflammation, infection, and possible impairment of vision. In addition to these complications, there is danger of burns from molten metal as in the case of spot welding, or from acids or caustics splashed into the eye while cleaning steel.

Modern science can protect your eyes with safety glasses. Wear them!

You owe your one pair of eyes that much.



Is Green Your Favorite Color?

Prefer green and the world in your eyes is a great big arena packed with thrills and a thousand things to look for. Neither glum nor particularly glamorous, but altogether engrossing.

You are a good neighbor, the home builder, mother or father of children. You are the voter, the joiner, the agreeable bridge partner, the coupon clipper. You see all the good shows and read all the popular books. You contribute to the Community Chest, have a democratic spirit and real faith and confidence that life is worth living.

You are mercenary but not parsimonious. Money to you means social position, a better car, friends to entertain, travel, reasonable luxuries. A little of everything for you.

You are sincere and wholesome. You never forget a friend and are one to visit the old homestead, look up the old gang and attend class reunions.

What you need is a little more power of concentration. You have the makings of an executive but are inclined to be modest and to avoid any aggressive moves for your own advancement. But your unselfishness is something you should never compromise.

Next month, Yellow.

—Reprinted courtesy of General Printing Ink Div., Sun Chemical Corp.



F. Emery Fleming



Machine shopper FRANCIS EMERY FLEMING has the distinction of being a production worker who moved to Mishawaka with this Company in 1926.

From 1920 to 1925 Emery devoted his time to core making, molding, producing small patterns, and assembling flasks for the Buch Foundry Co., York, Pennsylvania. When American bought out that organization and began operating the plant, Emery says: "I never lost a day of work, but continued working for the new management". When American consolidated its plants and offices in the present location, Emery moved here, too.

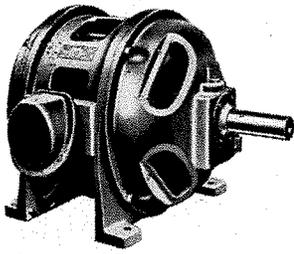
Previous to his association with Buch, he had been employed in a number of industries, among them quarrying stone, working in a wall paper printing plant and for the Keystone Machine Works.

Emery, like so many people, had always felt that he would enjoy farm life, so in 1931 quit to pursue that course. When American requested this steady, faithful worker, who goes about his duties with a minimum of supervision, to return to work in 1934, Emery came back to assemble flasks.

The war cut off supplies of magnesium for making this product, necessitating the transfer of the workers engaged in these tasks to other departments. Emery was assigned to the assembling of transmissions, differentials, clutches and power hoists for Sandcutters and fans for Sand Blast equipment—the work he is still doing.

Fishing is the principal outdoor sport now engaging the attention of this bachelor, for hunting makes him too tired. However, in years gone by, squirrel, rabbit and pheasant hunting occupied a lot of his time. Listening to sporting events on the radio fills up lots of the free time Emery has.

Bernard Fleming, a steel shop welder, is a brother to Emery. When American was presented the Army-Navy "E" award, Emery was one of the five labor representatives who sat on the platform.



WESTINGHOUSE ELECTRIC MOTORS

Motor frames, brackets, end plates and housings are just a few of the many types of castings which are Wheelabrated at Westinghouse Electric Co. Low operating costs and speed cleaning performance are reasons why Wheelabrators are chosen by Westinghouse for their cleaning requirements.



SINGER SEWING MACHINES

Heat treated and forged parts for power sewing machines used for industrial applications as well as those used in the home, are Wheelabrated by The Singer Sewing Machine Co., Elizabethport, New Jersey.

WHEELABRATOR CLEANS NATIONALLY KNOWN PRODUCTS

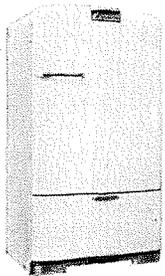
The list of manufacturers, coast to coast, who depend on the Airless Wheelabrator for faster, more thorough cleaning of castings reads like a "Who's Who" of Industry. The varied types of castings cleaned covers practically the entire field of metal products.

The Airless Wheelabrator's wide acceptance is due to its fast, cost-reducing performance and the perfection of its cleaning. Utilizing the power of centrifugal force, the Wheelabrator hurls 280,000 abrasive particles per second, removing sand and scale right down to the virgin

metal. This speeds up machining and grinding . . . lengthens tool life . . . simplifies inspection . . . improves appearance . . . provides a perfect bond for final finishing.

Besides the "case histories" illustrated, Allis-Chalmers . . . General Electric . . . General Motors . . . A. G. Spalding & Bros. . . . Otis Elevator Co. . . . U. S. Steel . . . Bendix . . . are but a few of the long list of progressive manufacturers using the Wheelabrator. We build Wheelabrators which, in turn, are used to manufacture the quality products we wish to buy.

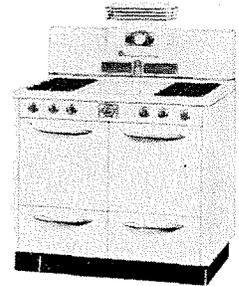
KELVINATOR REFRIGERATORS



112 Refrigerator motor housings (1000 pounds to a load) are Wheelabrated in a 48" x 42" Wheelabrator Tumblast in ten minutes. Wheelabrating is effecting important savings and improved cleaning performance on these and other castings used in Kelvinator refrigerators.

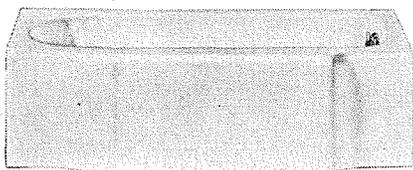
MAGIC CHEF RANGES

The first step to beauty in the Magic Chef gas range is a Wheelabrated surface on all enameled castings. A No. 2 Wheelabrator Multi-Table is used for cleaning these and other castings at American Stove Co., Cleveland.



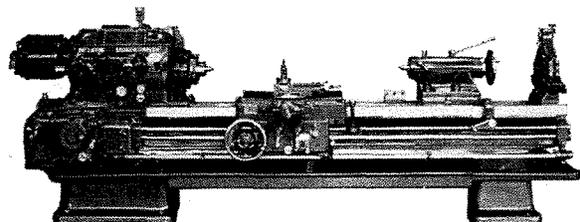
KOHLER BATH TUBS

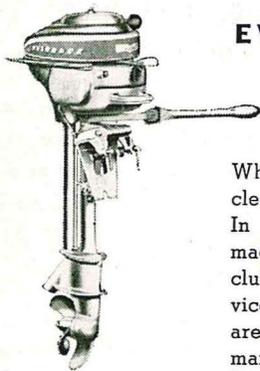
Sanitary ware, including bath tubs, sinks and miscellaneous small pieces are Wheelabrated in a Wheelabrator Monorail Cabinet prior to enameling at Kohler Co., Kohler, Wisconsin. Uniformly and thoroughly cleaned, every Wheelabrated surface has the proper finish to anchor the enamel to the metal.



LODGE & SHIPLEY LATHES

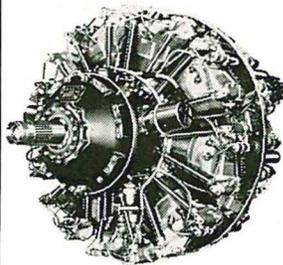
Machine tool castings up to 420 pounds each are cleaned on a No. 3 Wheelabrator Multi-Table at Lodge & Shipley Machine Tool Co., Cincinnati. Although all castings are purchased outside they are Wheelabrated to insure a perfectly clean surface prior to machining and grinding.





EVINRUDE OUTBOARD MOTORS

Wheelabrating is extensively used for the cleaning of parts used in sporting goods. In addition to outboard motor castings made by Evinrude Motors Division, golf club heads, bar bell weight lifting devices, bicycle parts, rifles, shot guns, etc., are being Wheelabrated by leading manufacturers.



WRIGHT CYCLONE ENGINES

Wright cyclone aircraft engines that must be corrosion-proofed for sea duty are metallized. To obtain the correct bond for this operation the surfaces of the deep finned cylinders are Wheelabrated in specially designed machines. 93 Wheelabrators are in operation at their various plants.

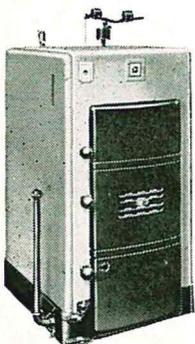
MAYTAG WASHERS

Typical Maytag washer castings cleaned in Wheelabrator equipment at the Maytag Co., Newton, Iowa include: wringer frames, locks, heads, and uncut gears. These parts are cleaned in a 27" x 36" Wheelabrator Tumbblast in a fraction of the time formerly required with an airblast table and several barrels.



CRANE VALVES

The outstanding performance and rugged endurance of the Wheelabrator are daily demonstrated in the speed-cleaning of large-heavy, steel valves and castings at Crane Co., Chicago. Four Wheelabrator Tumblasts and a Wheelabrator Cabinet are installed in their foundry.

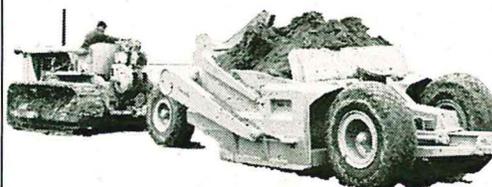


AMERICAN RADIATOR & STANDARD SANITARY CORP. BOILERS

Boiler fronts, furnace grates and fire pots are Wheelabrated in a Wheelabrator Tumbblast at one of the plants of American Radiator & Standard Sanitary Corp. Sanitary ware and other castings are Wheelabrated in other plants of this company, which is operating thirteen Wheelabrators.

CATERPILLAR TRACTORS

Caterpillar equipment, built-to-take-it on the toughest assignments, incorporates scores of Wheelabrated castings such as: manifolds, engine heads, gears, brackets, housings, structural members, etc.



More than 60,000 pounds of green castings are cleaned in eight hours in each of their two 48" x 48" Wheelabrators.

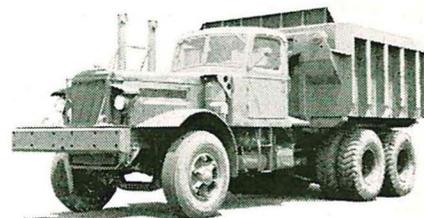
PLOMB HAND TOOLS

All Plomb industrial wrenches conform to S. A. E. specifications and meet the tolerances on modern equipment. They are built for heavy duty and are streamlined to reduce weight. To make these correctly proportioned tools, Plomb Tool Co., Los Angeles, California Wheelabrates the tool forgings in four Wheelabrators.



MACK TRUCKS

At the Mack Mfg. Corp., New Brunswick, N. J., two 48" x 72" Wheelabrator Tumblasts speed the cleaning of large and small truck castings. These castings consist of cylinder blocks, heads, transmission cases, water pump housings, etc. Cleaning time varies from 8 to 12 minutes depending upon the size and shape of pieces handled.





One of the hundreds of places where our name had to be changed . . . the front entrance to the office building. Rosemary Reed points to the partially completed name change. The sign painter was adding the black backing to the gold leaf when this shot was taken.



Sold 4 Dustubes

We know that industrial shows help to sell our equipment, but it often is hard to trace a sale directly to one of these exhibits. But, here is one of the exceptions:

One of the visitors at the 1944 Chemical Show in Chicago, was an engineer for American Smelting & Refining Co. This man discussed our dust collectors with Chuck DeCraene, took a catalog and other literature with him, and left.

After several months time the western engineering office at Garfield, Utah, wrote asking for a proposal on dust collectors giving the cloth capacity required to do their job. They had evidently read our catalog and obtained from it the information needed to solve their problems; and now wanted to know the cost.

The proposal was prepared and sent. Nothing happened for sometime. Another letter: "Do the prices quoted in the proposal sent us several months ago still prevail?"

Then the pay-off: An order for four Knock-Down type Dustube dust collectors!

At the time all this was going on we did not have a sales engineer in the Denver area, therefore did not properly follow up the interest expressed by so large an organization as American Smelting and Refining Co.

American Dustube Dust Collectors have to be good to sell themselves to the tune of four collectors to the largest smelting organization in the world.

The units are installed in the Globe plant in Denver where ore is processed to produce cadmium—used to alloy steel—and indium—used to alloy bearings so they are self lubricating.

The No. 95 will be used for the collection of oxides—an oxide is a powder made from metal.

The No. 55 will collect thallium—a metal of the aluminum family.

Two No. 135—one will collect oxides, the other litharge—litharge is the scum or foam produced in smelting silver-bearing lead ore.

American Shorts

Rubberizing is facilitated on metal parts cleaned and prepared by Wheelabrator. This process provides a bull-dog grip for the rubber coating and is in use on wringer rolls, industrial tires, printer rollers, etc.

Aircraft engines that must be corrosion-proofed for sea duty are metallized by Wright Aeronautical Corp. To obtain the correct bond for this operation the surfaces of the deep-finned cylinders are Wheelabrator in specially designed machines.

Heavy scale encrustations on the locomotive boiler flues provide undesirable insulation between the hot gases and the water being heated. Its removal had always been a slow and cumbersome task. With Wheelabrator equipment, specially designed for that purpose, cleaning is a speedy and efficient operation. Such machines are installed in a number of major railroad repair shops.



Collecting Horses, Horses

HAROLD GAY, night steel shopper, has been interested in horses ever since he was ten and began working as a barn boy. Later he worked on various farms, breaking, training and working horses—farm horses, draft horses, circus horses, army horses—horses of all colors, sizes and tempers.

When Harold gave up working with horses he still retained contact with them, so continued an interest began when he was but two years old and was given a model of a team of horses drawing a wagon. A fire destroyed all but one horse of this reproduction. Since that time he has acquired at least 20 models of horses and numerous pictures.

The largest item is a door stop, a replica of a Shetland pony, that was purchased in

Michigan. The other specimens range from pictures of such famous scenes as the race in *Ben Hur* and a covered wagon, through statues of fine horse flesh, to freaks.

To obtain a horse from every state in the Union is Harold's ambition—an aim aided by friends and relatives who pick up figures for him while on trips. His son contributed a wood carving of Tojo's white steed, purchased in Korea. Horse head plaques, salt and pepper shakers and book ends are also numbered among his collection.

Ordinarily they are used to decorate the house—walls, tables, what-not shelves, etc., until Mrs. Gay says she is tired of seeing horses. However, the Gay daughters share dad's interest and keep a sharp watchout when small children come to visit, rescuing choice models from eager little hands.

Looking in on the other fellow's job

PROCESS ENGINEERING

The process engineer is everyone's helper—by that is meant, he is called upon by the manufacturing, engineering, sales and purchasing departments to answer questions, make recommendations, plan manufacturing procedures, estimate costs, counsel on facilities and smooth out problems. Needless to say, his door is always open to anyone seeking his services.

While there are a lot of things "process engineering" can do and does do in various other plants, this description is confined to what is done here at American now, not future plans. L. D. Tyson, and the tool designer, Al Ross, are primarily concerned with manufacturing methods and equipment—this in turn touches all other departments in the organization, most of them directly, some indirectly.

Since the work is so varied, there is no attempt made here to follow through typical jobs, or illustrate all activities. Because so much of the work is mental, it is difficult to illustrate—the results show in production.

It is L. D. Tyson's duty to help the production departments plan their work so that it can be done rapidly, inexpensively, easily and with the available equipment. To accomplish this he works with the department heads to design new jigs, fixtures, dies, tools, machines, to plan the flow of work

and solve manufacturing difficulties. It isn't a case of telling supervisors to do a thing, it is planning various procedures with them.

Other questions coming to this department for handling are:

The engineering department asks what our facilities are for fabricating a new design? are they such that this design would be feasible to manufacture? is it possible to build this in our plant economically? Often a new design could, from an engineering standpoint, be just as good one way as another, but from a manufacturing angle, there is a vast difference.

The sales department wants to know, before it quotes a customer the selling price, what a new design cost to produce.

The cost department says a particular piece is unprofitable to make . . . process engineering tries to reduce the manufacturing cost.

The purchasing department says a certain material is unavailable, what substitute is recommended?

When new tools, dies, fixtures or other tools are requested, the cost to produce such a tool is determined, what it will save or accomplish estimated, and the two balanced to see if the result would be worthwhile.



To enable him to visualize a problem and a solution, L. D. Tyson draws a rough sketch, then makes notes around it. The rough sketch may be passed on to Al Ross for a finished drawing, or used to illustrate discussions with engineers and production men.

New tools, dies, jigs, fixtures and other tools are designed and their production supervised.

Suggestions submitted by workers are analyzed to see if the idea is feasible and profitable.



This pattern for conveyor pusher fingers used in Wheelabrator machines for peening coil springs, caused shrink holes in the castings produced from it. Abrasive blasting soon wears through to the cavity causing failure of the part. L. D. Tyson and foundry superintendent Albert Blaskie decide on the proper method to counteract this.



If the holes in the bracket to which L. D. Tyson is pointing, are not drilled in perfect alignment, sheave interference results. Sam Hearrell, machine shop superintendent, the process engineer, and tool maker Walter Messick discuss the design for a jig that will drill the holes correctly. A completed punching die stands behind the sheave.



New tool designs to be produced both by our tool makers or outside are drawn by Al Ross. Conferences between the process engineer and the head of the department where the tool will be used are held before and after the drawings are made to insure the tool will be satisfactory both from an engineering and a practical standpoint.



Eye to the Keyhole

Seen on the opening day of the hunting season: DALE SNYDER shooting a rabbit which turned out to be only a rabbit's head on a stick . . .

GEORGE WALL coming out of the house to go hunting clad only in pajamas, house slippers and hat.

CLAUDE CANNEL (lathe, nights) had a pleasant trip to Michigan deer hunting. The 1946 season was but a few hours old before he had an eight-point buck, weighing 180 lbs., to his credit.

Hunting season opened with a bang, but there weren't too many pheasant feathers to be seen in the machine shop. GEORGE WALTERS and JOHN SMITH were forced to wade the St. Joseph river when their canoe upset, however.

ANDY STEVENS (stock room) went hunting for rabbits with his newly-purchased beagle hound. It seems Mrs. Andy had voiced the opinion that the price for the dog was too steep, so Andy took her hunting with him. When she saw the dog catch all the rabbits—29 in all—she changed her mind about the value of the canine.

Many of the boys came back from their vacations this summer with tall fish stories, but they don't have anything on RALPH WHITTAKER. Ralph went hunting the first day of the season and bagged his limit (not witnessed) 10 rabbits and two pheasants.

The night gang in the steel shop presented BOB REIHL with a high chair and a bag of pennies for his new daughter, Sharon Lee, born October 23.

Gary Alen checked in at the home of ALBERT DE WULF (machine shop) October 27.

It's a boy, Dennis, born October 29 to Mr. and Mrs. JOHN WOODRUFF (steel shop).

Lawrence Raymond is the new income tax deduction at the home of ROBERT N. GILLEN, (foundry).

When the cigar smoke cleared away in the machine shop during the night shift, it could be seen that VIRGIL McFALL was the father of Gerald Lynn, born November 14, and JOSEPH BELL, the father of Sharon Mae, born November 17.

JAMES PLOTNER and Dorothy Herkenroder were married October 27. Engineering's gift to them was a carving set.

The diamond on VIVIAN BALESTRI'S left hand is from Pete Benjamin.

Who wouldn't be as proud as GEORGE McNEILE (research) if their child was declared the best baby in a contest? That's what happened to three-year old Mary Margaret. To show for her pulchritude she has a silver cup engraved with her name, and a \$50.00 bond. Of course, Mac is taking all the credit himself.

GLORIA TEDROW and William Webber were married recently. The engineering department presented her with a coffee set.

DELBERT J. DARE, JR., (tool crib, night) and Carrol Pritz, who made their first acquaintance in church (she awoke him) are to be united in marriage on December 15.

JACK EUBANK (machine shop, night) was married recently, but is keeping his wife's maiden name a secret.

If anyone wants to argue about anything at any time, the man to see is CLAUDE (JACK) GOODRICH on the impeller grinder, nights. Jack would rather argue than anything.

Maybe it is best to warn HORATIO VAN CLEAVE now, before it gets too cold, to be sure and wear a hat or ear muffs when he goes ice fishing. Last year Van froze an ear while fishing in Wausau.

MARIE DAVIS (accounting) spent her vacation in New Orleans and Memphis.

CLAIR THARP (office) flew to New York for the Notre Dame-Army game.



Drawing by Bill Geist.

ALVA BRICKER has pulled many tricks on fellow night shift, steel shop workers, and always come off the best . . . but this time ANDY RUPCHOCK ran him down and turned Alva over his knee—unassisted—and spanked him.

Research into the question as to why EDDIE HIGGENSON was being called "Admiral" by his wife, revealed that: Eddie was discovered sailing his son's toy boats in the bath tub. In the interests of science he wanted to know if a wet wash cloth would sink the craft.

Steel shopper ROBERT BUCK has a constant reminder in the flight of steps marked "Watch Your Step" in the steel shop, of the week he was off work. He caught his toe in his pant's leg while descending the steps of the VFW, the resulting fall was painful. Those safety rules are equally applicable away from work as in the shop, you know.

Why was WILLIAM JOHNSON (maintenance) sitting on top of a ladder staring at a perfectly good window pane? This is the story:

Seeing a pane in a window of the research building covered with a sheet of card board, Bill obtained a new pane of glass and the necessary tools, climbed to the top of a ladder and proceeded to remove the card-board preparatory to replacing the damaged pane. When the paper was removed, there staring him in the face was a perfectly good glass. The cardboard is still there, incidentally.

Steelshopper CHARLES BATSON, son of EARL BATSON (machine shop) has been stricken with polio.

VIRGIL POPE formerly of the metallurgical lab, has been transferred to Research.

Knowing the difficulty experienced by the personnel department the last time they moved, Mrs. EARL DUKE, wrote her husband's foreman a note. It read: "My dear Mr. Squibb:

"I suppose by now you have heard we moved. I thought I'd better send you our new address again. I know my husband can never remember the address. Poor guy, he can't help it, so let us not have any more trouble. Sincerely, Mrs. E. B. Duke, 507 N. Center St., Bremen, Indiana."

CHARLES GEHRING and his wife, the former office worker Mary Ann Goheen, spent their vacation in New York—also taking in the Notre Dame-Army game.

Optimists that we are, we think someone has a nice, modern, 5-room house they would like to rent to three adults. We would like it close to transportation, because I have to come to work on the bus. Will even consider buying if that is the only way to get a roof over our heads . . . or even a 6-room house . . . or an apartment—Marjorie Frazee, Adv. Dept., Extension 38.

For Sale: 5 HP Johnson Sea Horse motor, recently overhauled so is in good condition. Lawrence Luke, Sandcutter Assembly. May be seen at 1217 East Fourth St.

For Sale: 7-shell Winchester pump gun. Good condition. \$60.00, Marie Davis, extension 44.



ESSE WEST—Guide channel for front closing plate on the 36" x 42" Wheelabrator Tumbblast, be cut one inch shorter in make up to eliminate doing this operation on the assembly line

This is a good idea, but the award has not been claimed. Is it yours?

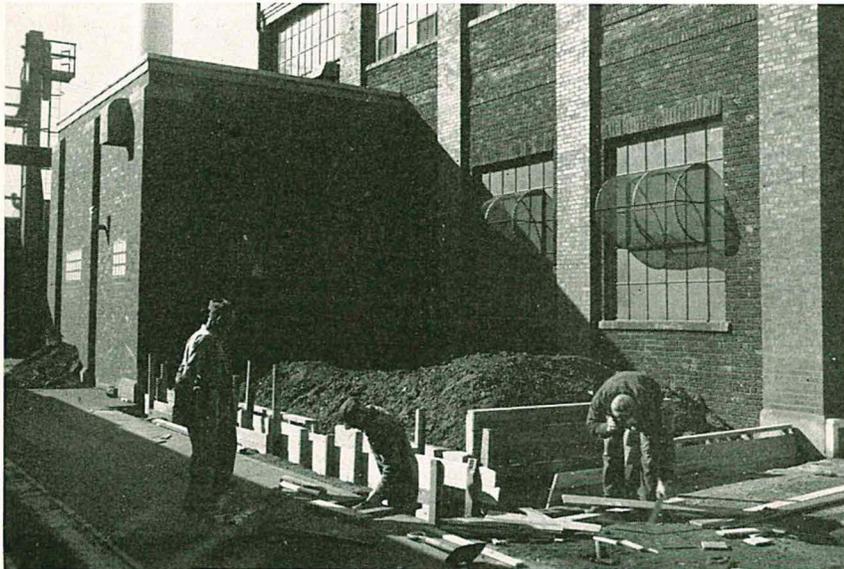
3518—Chamfer caster wheel spindle on the lower end instead of reaming the forks for a welding surface. This is easier to do and the weld holds better.



5,000,000 brake drums Wheelabrated annually. The Centrifugal Fusing Company, Lansing, Michigan, uses three Wheelabrator special cabinets for cleaning centrifugally cast brake drums. In one typical year, five million drums were shipped.

The winner of the contest conducted at the American exhibit at the recent Foundry Show changed a cloth bag filter in the Dustube Dust Collector in just 4.6 seconds.

Wheelabrator Tumbblast operates 9 years without major repairs! Since March, 1937 a 48" x 42" Wheelabrator Tumbblast has run continuously 8 to 10 hours a day, and during the war up to 24 hours daily, at General Foundry & Machine Co., Flint, Michigan. During this time only minor repairs have been necessary.



An addition—that isn't news anymore—it goes on continuously! This time adding more space to both floors of our overcrowded engineering department

The department is so crowded now one man is rubbing elbows with the man next to him. Since the walls are red brick rather than rubber, more space is being provided to accommodate the additional engineers needed to handle our ever expanding business.

Dustube Use Extended Into More Industries

The first American dust collectors were built to ventilate airblast equipment of our manufacture. With the introduction of the Wheelabrator, the primary market for our dust collecting equipment was with this blast cleaning machine.

However, the high efficiency, simplicity and economy of operation of the Dustube dust collector was so outstanding that it was soon applied to other ventilation applications. New designs, engineering improvements and research studies enabled American to recommend the Dustube dust collector for practically every dust and fume control problem.

With the present intensive sales promotion activity in the Dust and Fume Control division, the production and installation of Dustubes is expected to match the business potentials of the Wheelabrator.

Already the Dustube is becoming well known in every industrial field. Listed below are only a few of the many process industries in which Dustubes are being used:

Coal—for the preparation of coal and coke.

Soap—to collect spray dried soap and detergents.

Ceramic—pottery and enameling plants.

Chemical—carbon black and others.

Food—vegetable concentrates.

Non-ferrous metal industry.

Fibre—synthetic, such as glass; mineral such as asbestos; and natural such as jute.

Woodworking—sawdust and wood chips.

Reflections of Christmas

The season of Christmas is a time apart from the rest of the year. It is a hallowed time . . . a time aglow with cheerful friendliness and happy memories of the long ago. Because of this happiness, down through the ages mankind has accumulated a wealth of inspiringly beautiful Christmas literature.

To share with you the happiness of the season, American has printed a little volume *Reflections of Christmas*—full of holiday verse and prose. We hope that within its covers you will find happy moments reading or re-reading these Christmas stories.

A copy of the booklet has been sent to all workers at American and to our customers and friends with sincere wishes for a Merry Christmas and a New Year full of happiness.



ENGINEERING—Donald E. Scott*, Kenneth Kollar*, Ervin Goodkin, Billy M Hollenback.

FOUNDRY—Bruce Baker, Gail Kring, Lloyd Burch, James R Bennett.

STEEL SHOP—Delmer Kimbel, Richard Quintaine, Joseph Kuzmanovich, John Procaccino, John Abberger, Glenn Wallace, Robert Andrews, Lloyd Mills, Earl Nifong, William Bickel, Robert Widup, Edward DeVos, Henry Van DeWalle, Clare Hayden, Robert Williams, Roger Mumby, Robert Shoemaker, Henry Orsich, Gilbert Harder, Melvin Beam, Jack Brown, Howard Matthews, August Inghels, William Likes, Robert F. Zwemer, Harry Wiencek, Jack Ream, William Lymon, Archiel Lootens.

MACHINE SHOP—Arden Martin, Charles Ritter, Mahlon Wise, Keith Shroyer, Vincent Howland*, Eugene Gibbons.

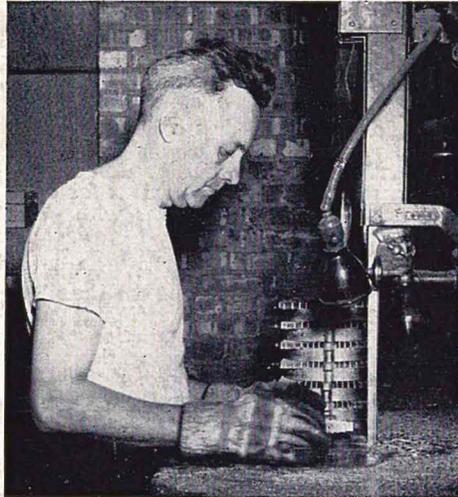
OFFICE—Georgiana Richardson, Margaret McAndrews, Beatrice Andrews.

MISCELLANEOUS—Donald Bottonff* (shipping), Eugene L. Smith (maintenance), Charles Paulk (inspection).

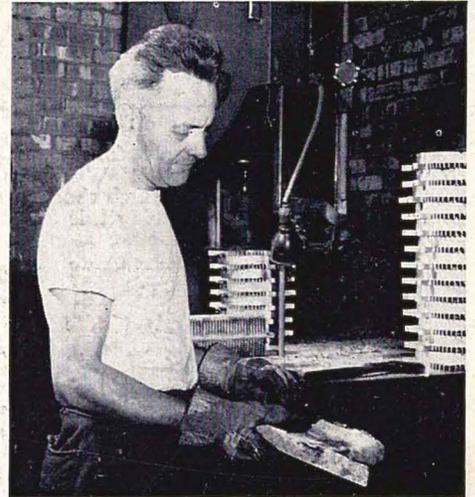
*Former employees who have been serving with the Armed Forces.



PARADE
 Presents
**IMAGINEER
 AT WORK**
 Starring
FRED BISHOP of the foundry



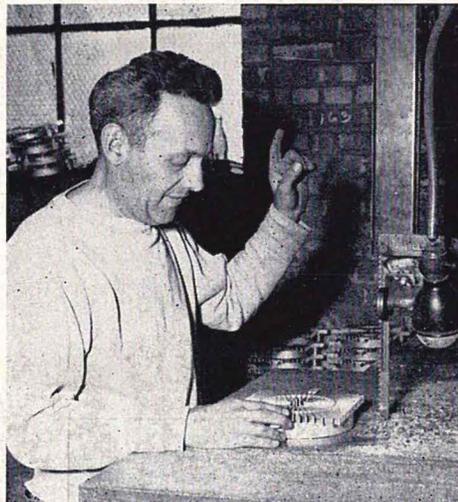
Our hero is engaged in
 His daily occupation



This handling is needless
 Thus—righteous indignation



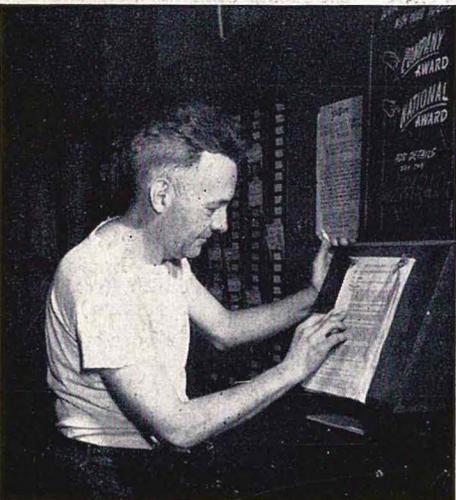
There must be another way
 This calls for concentration



"Eureka!" I have found it!
 I've had an inspiration!



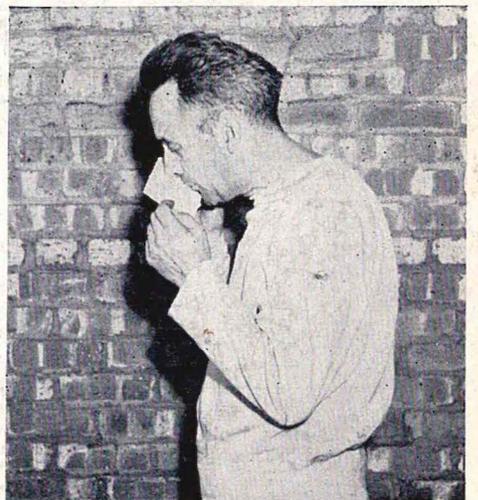
Into the box he puts
 His written-out suggestion



He eagerly watches, then on the board
 Comes his notification



Right there it is
 That's cause for elation



A check for that idea and
 Fred gives way to osculation