

AMERICAN
Parade

VOL. 6, NO. 1 JANUARY, 1947

AMERICAN PARADE

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

Vol. 6, No. 1 JANUARY 1947

ROBERT E. SCHALLIOL
Editorial Director

MARJORIE E. FRAZEE
Editor

REPORTERS

Paul Bessmer, Research
Wilfred Bickel, Machine Shop
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
Emile DeVreese, Demonstration
Mildred Fore, Office
Harry Hixenbaugh, Engineering
Lee Kelly, Steel Shop
Paul Kizer, Steel Shop
William Minnes, Mach. Shop, night
Jephthah Minnes, Steel Shop, night
Robert Powell, Stock Room
Jean Tracy, Research



H. Fries

D. Jaycox

DECATUR JAYCOX, inspection department worker, joins the select ranks of those American workers who have had ten ideas accepted by the Suggestion System. He is the fifth person to have been awarded \$5.00 in addition to the regular prizes for this achievement. Imagineering pays!

The twentieth member of the "5" club is HERMAN FRIES of the stock room. For submitting five accepted ideas to the Suggestion System, he has, in addition to the regular awards for ideas, an additional \$5.00. Imagineering pays!

The Man and the Idea

ROBERT QUALLS: That the flange for the vent on the top plate of the 48" x42" Tumbblast and on all other size machines be broken on all four corners to provide a better fit. Such an arrangement will eliminate extra grinding and also make an easier set-up for the welding operations.

EUGENE HEIGHWAY: Assign part numbers to all Woodruff keys in order that the stock room will be able to fill orders for these items correctly.

Riveting fixture be designed so that part No. 26503 (clutch on the "AA" Sandcutter) can be assembled without breaking parts in the assembly. This will reduce spoilage by approximately 25%.

EDGAR MUMBY: Eliminate the special vent box now used on the 48" x 42" Wheelabrator Tumbblast auxiliary type hopper; substitute the vent box used on the 48" x72" Tumbblast. This will eliminate making up a special box for standard equipment.

DECATUR JAYCOX: Turn a chamfer on compensating take-up reel gear on "AA" Sandcutter, so that the internal gear will fit tight. Placing the chamfer on this part will eliminate much reworking.

Make special hand plug gauge for 41550 bearing housing which is standard on most of our Tumbblast elevators. This gauge to be designed with either "go" or "no go" ends that will insure a drive fit. This will save time and material and be more satisfactory in machining and inspection.

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

4700: Make items 2 and 3 on BM 35908 in one piece of bar stock $\frac{3}{4}$ " x $1\frac{1}{4}$ " x $1\frac{3}{4}$ " long with $\frac{1}{2}$ " hole, countersink both sides

so edges will not cut cable. This will save the cutting and welding of three separate pieces.

GEORGE SIMMONS: 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.

Credit Union

Credit Unions may be defined as cooperative organizations of people, within a given field, having a "common bond", who are united to promote thrift and provide credit for provident and productive purposes. They are chartered to so operate by the Federal or a State Government.

It is important to note that a "common bond" must exist before a charter can be issued or an organization established. So Credit Unions flourish within such groups as fraternal orders, rural communities, labor unions and governmental agencies. Primarily they build the habit of thrift among their members and provide credit for contingencies. The Credit Union slogan is, "Not for Profit, Not for Charity, But for Service".

Credit Unions originated in Europe almost one hundred years ago, came to Canada as People's Banks at the turn of the century, and were launched in the United States in 1909, with the passage of the Massachusetts Credit Union Act. Many other states followed the lead of Massachusetts and in 1934, Congress passed the Federal Credit Union Act, which permits the establishment of Federal Credit Unions, anywhere in the United States and the territory of Hawaii.

The Credit Union here at *American* was organized in July of 1943 and makes loans up to \$500.00. The interest is 1% per month on the unpaid balance. In 1945 the dividend was 3%.

While many people seem to feel the Credit Union is just a good place to borrow money, in reality it is the best place to save money for it permits savings as low as 25c a week which many people would not make the effort to place in a savings bank.

★ ★ ★

90,000 lbs. of metallic powder are collected in eight hours in two Dustube Dust Collectors at Greenback Industries, Greenback, Tennessee. This is an experimental division working on gun powder.

★ ★ ★

Reconditioning old gas and oil-line pipe requires the removal of scale, rust and foreign material down to the virgin steel. 20' lengths of pipe which have been in corrosive soil for 19 years are thoroughly cleaned and roughened to provide a perfect bonding surface, in two minutes in a Wheelabrator Cabinet.

★ ★ ★

Uniform hardness of piston pins is being guaranteed by Burgess-Norton Mfg. Co., Geneva, Ill. due to the thorough cleaning of the pins by Wheelabrating prior to inspection. Wheelabrating a pin brings any soft spot that may be present clearly into relief permitting a visual check for outside surface hardness.

★ ★ ★

300 cast automobile crankshafts per hour are cleaned at Auto Specialties Mfg. Co., Benton Harbor, Michigan, with a Wheelabrator Monorail Cabinet.

The Cover

The road ahead into the new year can be seen for but a short way; what lies over the hill can only be guessed.

The way will surely change with the seasons; at times it will be smooth, at others steep and crooked, and beautiful and grim . . . the road, at least for a while, will be similar to the way that is just passed

And these things, too, are sure: The road is lighted, and well marked, there will be others traveling along the way who will help if aid is needed, and those who will need help.

So the road into the new year, with its promise of fulfilled hopes and plans and dreams invites us to enjoy living as we go 'long. A good journey to all in 1947!

— Cover Photo by Ballard-Dearborn

Stag Party

The Athletic Association entertained with a stag party November 23 in the Mishawaka Conservation Clubhouse.

For entertainment, the group watched movies and played cards. These events were alternated with raffles for a number of turkeys throughout the evening.

Approximately 175 men of American also enjoyed pop corn, potato chips and pretzels, washed down with suitable liquids.

New Members of the *Year's Quota Club*



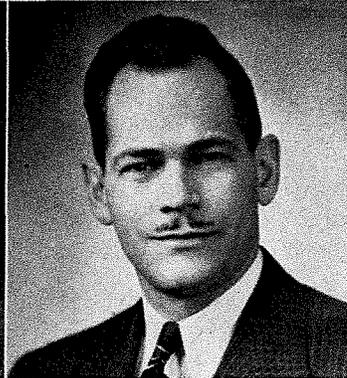
J. D. Alexander
Cleveland
111%
End of October



R. A. Campbell
Toronto
112%
End of November



C. F. Ludwig
Buffalo
102%
End of November



V. S. Spears
Mishawaka
100%
End of November

Congratulations to four more sales engineers for their achievement of securing the full year's sales quota for their territory in less than twelve months.

The end of October 1946 added the name of John D. Alexander to the list of *American* salesmen who had sold their twelve month's quota before the year's end.

Tabulation of sales figures at the end of November revealed the addition to this list of Robert A. Campbell, Vernon S. Spears, and Charles F. Ludwig. Sales quotas are set on the estimated potential market in the area.

JOHN D. ALEXANDER joined *American* in 1916. During his 30 years of service, he has always done an outstanding job—this

year is no exception. John holds a Bachelor of Science degree from Case School of Applied Science in Cleveland. Years of experience and study have given him a thorough understanding of the many problems in the metal working industry. This knowledge is reflected by his consistent, outstanding record.

ROBERT A. CAMPBELL joined *American* in 1945 and was assigned the Toronto area January 1, 1946. He is our first resident Canadian representative and the sales record he has achieved during the past eleven months is exceptional. Bob holds a degree in mining and Metallurgy from McGill University, Toronto. He is a licensed professional engineer and had considerable business experience before joining this Company.

CHARLES F. LUDWIG joined *American* upon graduation from Purdue University in 1935. Since that time he has successfully filled various sales and service assignments. After establishing an enviable record in the Houston and St. Louis areas, Chuck was selected, in October 1945, to open a new sales office at Buffalo. The record he has achieved in this territory this year indicates his success in this assignment.

VERNON S. SPEARS joined *American* in 1936 as a member of the sales department staff. In 1944 he became our representative in the Indiana territory and has been a consistent top producer of orders since that time. Vern holds a degree in Mechanical Engineering from Iowa State College. Before joining *American* he had had several years experience with other organizations.



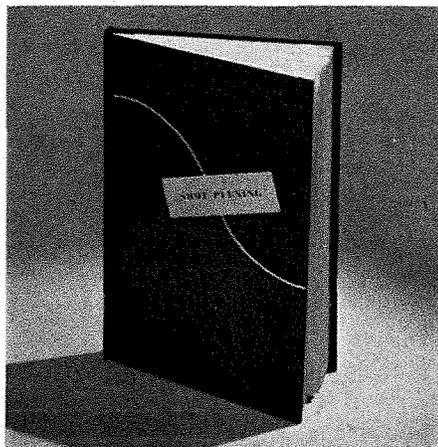
Shot Peening Text Book

The second edition of the technical text book *Shot Peening* has just been published by American Wheelabrator & Equipment Corp.

This 6"x9", 128 page book is case bound in dark red, stamped in gold; a more inexpensive edition is bound in tan leatherette paper.

The text book was written by American engineers and is the most authoritative publication on shot peening and the only text book on the subject. This is understandable for American has probably done more research in the field of shot peening than any other organization and our engineers are authorities on the subject.

The book begins with a description of what shot peening is and what it can do.



Succeeding chapters discuss the benefits of shot peening. A description of the process, how it is done, the equipment used, applications, methods and standards are all described in detail.

Part II of the book was written by H. F. Moore, Research Professor of Engineering Materials (Emeritus) at the University of Illinois and a member of the consulting engineering staff of this company. Prof. Moore is a recognized authority in the field of metal fatigue.

The book was originally published in 1944 and then reprinted; both printings were soon exhausted because of the heavy demand by engineers, research men and teachers for it is a much needed addition to the fund of printed knowledge.



Safety Meetings

This picture was taken in the steel shop at the third of the series of six sound-slide films on safety, first aid and health given by the Liberty Mutual Insurance Co. The subject was "Open for Inspection". The first two films were entitled "The Safe Way of Lifting and Handling Materials", and "Grime Does Not Pay".

It is urged that all workers attend these meetings held the third Monday of each month in the steel shop. They begin at 12:15 PM and are interesting as well as informative. At each session, works manager, Stanley Krzeszewski gives a short talk, the entire session lasting about 25 minutes.

Our Safety Record

INJURIES	Nov.	Yearly Total
Machine Shop.....	62	499
Steel Shop.....	108	903
Foundry.....	12	126
Stock Room.....	11	100
Maintenance.....	13	89
Demonstration-Research..	3	51
Shipping.....	0	37
Office.....	3	20
Total.....	212	1825

4 days lost after sustaining a foreign body in the eye.
 Foundry—
 10 days lost from a mashed hand.
 Maintenance—
 5 days lost because of head injury (concussion).
Total 78 days lost

LOST TIME CASES	Nov.	Yearly Total
Steel Shop.....	4	45
Machine Shop.....	2	15
Foundry.....	1	17
Maintenance.....	1	7
Stock Room.....	0	7
Shipping.....	0	2
Demonstration-Research.....	0	0
Office.....	0	0
Total.....	8	93

LOST TIME ACCIDENTS WERE:

- Steel Shop—
 - 9 days lost from contusion of the foot.
 - 6 days lost from contusion of the foot.
 - 30 days lost from contusion of the leg.
 - 8 days lost resulting from partial amputation of fingers.
- Machine Shop—
 - 6 days lost because of contusion of the foot.

Is Yellow Your Favorite Color?

An intellectualist, are you? Those who crave yellow in their hearts are generally the philosophers and self seekers. They presume to be high-minded, whether they really are or not.

Prefer yellow and you are sure to be a pantheist or a cultist of some sort. You have a beautifully controlled temper—but the temper is there, and confoundedly mean at times. You long to have a message and to convert others to your viewpoint. Hence, you are a natural-born organizer and reformer.

But you are a mental lone-wolf. While your own ideas are generally profound, you are inclined to stick to them, right or wrong. While others may place a high value on your opinions, no one will think quite as much of them as you do.

You are a bit timid before life, although your own feeling in the matter may be one of rare courage and sophistication. You profit through the experiences of others, but could stand a little more actual contact with the world of humanity.

Your mind is philosophical. You are able and can master problems, small or large. But it would be good for you to give in to your emotions once in a while and learn what it means to "feel" as well as to think."
 Next month, Purple.

—Reprinted through the courtesy of General Printing Ink Division, Sun Chemical Corp.

College Bred Equipment

American equipment is college material. No, that isn't kidding or being funny, for three of the best engineering schools in the United States are using American equipment in their laboratories.

A school is considered "good" because of its informed instructors, well equipped laboratories and proved ability to train successful students. Purdue University, The University of Notre Dame and Cornell University have for years been considered "good" schools because they possess these qualities.

Two years ago Purdue University installed a No. 1-B Suction Cabinet in the Foundry laboratories of the Michael Golden shops. Last year all of the approximately 800 students enrolled in the foundry course operated this unit to clean castings which had been molded and poured by this group.

Cornell University, Ithica, New York has been using a 20" x 27" Wheelabrator Tumbler since 1940 in their school of Chemical and Metallurgical Engineering.

At the University of Notre Dame, an airblast suction gun is used in their laboratories.

Because of these installations, hundreds of college-trained engineers are familiar with American, even before they are established in the metal working industries.



"Castings, always castings! Can't we ever hit the jack-pot?"

The Show Went On



The Metals Show, held in the Municipal Auditorium at Atlantic City November 18 to 23, in connection with the 28th Annual Metals Congress, attracted some 40,000 visitors. To this audience of engineers, executives and production men, American exhibited a No. 1 Table Wheelabrator (shot peening) machine, a 20" x 27" Wheelabrator Tumbler, both ventilated by an American Dustube Collector; and a demonstrating unit to show operation of the Dustube Collector. Actual operating demonstrations of Wheelabrator cleaning and peening on actual products supplied by some of our customers were witnessed by those attending the Show.

Also on display were samples of Wheelabrator abrasive, Wheelabrator and Wheelabrator products, a cut-away model of the Wheelabrator unit, and an abrasive tester. The second edition of the textbook *Shot Peening* (described elsewhere in this issue of *Parade*) was introduced.

The Show was planned by the advertising department and the machinery was erected by service engineer Elmer Kremer of the Philadelphia sales area. On hand from Mishawaka to talk with visitors were: A. E. Lenhard, L. J. Wieschhaus, S. S. Deputy, G. D. Dill, C. H. Cline, John Straub and A. H. Freeman.

Prof. H. F. Moore of our consulting engineering staff and salesmen T. T. Alverson, Baltimore; H. G. Mouat, Birmingham; C. F. Ludwig, Buffalo; Russell Duer, Cincinnati; R. L. Orth and G. R. Bryant, Detroit; V. S. Spears, Mishawaka; David Logan, Newark, N. J., C. L. Benham, Springfield, Mass.; and F. W. Pedrotty, Philadelphia were also in attendance.



STEEL SHOP—Leslie R. Magnuson, Donald A. Burns, Eugene H. Fitzgerald, Charles E. Taylor, Stanley Golubske, John E. Okaly.

MACHINE SHOP—Cecil H. Stackman, Edmond Van Den Berghe, Thomas W. Freeze, Clarence F. Hamman, Edward F. Roney.

MISCELLANEOUS—Paul G. Mumby, Engineering; Yvonne J. Zotter; Stockroom; Mary L. Harrington, Office; William A. Gee, Chemistry Laboratory; Coy E. Replogle, Inspection; Robert W. Parkins, Service Engineer; Richard E. Weaver, Foundry;

M. Morris Reelected

Director of N.A.S.S.

At the last regular meeting of the National Association of Suggestion Systems, Melvin E. Morris, Chairman of our own Suggestion System, was reelected to the Association's Board of Directors.

At this meeting, held November 3 and 4, in Chicago, approximately 475 members and non-members of the association met to discuss suggestion systems, exchange experiences and ideas.

Speakers at the dinner and luncheon sessions included: W. A. Johnson, president of the Illinois Central Railroad; A. P. Apley, executive vice president Montgomery Ward & Co.; and Mr. Pierce, vice president of General Motors Corp.

Otto A. Pfaff, president and general manager and Harold M. Miller, vice president of our own company, were guests of the Association at the dinner meeting on Monday night. At this time the prizes offered in the contest sponsored by *Supervision* magazine (announced in the June issue of *Parade*) were awarded for the winning ideas submitted in this national contest.

Looking in on the other fellows' job
Advertising Department



ALDEN E. LENHARD, advertising and sales promotion manager, who plans and supervises the work of the department



The production requirements of all printed pieces necessitates contacts by ARTHUR W. FULLER with commercial artists (John deMan in the picture), type setters, engravers, printers and other suppliers.

BUT NO *Singing* COMI

The most generally recognized objectives of advertising are: To prospect for new customers; to build good will and establish prestige for the Company; to establish contact with customers and prospects between personal sales calls; to keep industry informed of new technical processes and new or improved equipment; and to develop new markets. It is the function of advertising to do the preliminary and necessary promotion work to make the salesman's work easier and more productive.

At American Wheelabrator & Equipment Corp. a well-organized advertising department is maintained to carry on these objectives through magazines, direct mail, catalogs, feature stories, news releases, industrial shows, and other media.

The magazines selected to carry our messages are obviously those which are read by management and production men in the industries comprising our markets. Among the publications in which *American* products are advertised are *The Foundry*, *T. Iron Age*, *Steel*, *Materials and Methods*, *American Machinist*, *Industrial Equipment News*, etc. Depending upon the circulation (number of readers), editorial content and frequency of publication, the number of issues in which our advertisements appear varies with each magazine.

Supplementing magazine advertising is a complete direct mail campaign for each product. Included in this category are the monthly Reminder memo booklet which has been distributed for nearly 20 years, and *The Wheelabrator Digest*, a 16-page magazine issued four times a year. In addition to the Reminder mailing, an average of three other mailings are made monthly to all or part of our complete mailing list.

The preparation of catalogs and instruction manuals is also a function of the department. This entails the compilation of all photographs, construction features, specifications and data for every machine. As equipment is improved and changed, revisions in existing catalogs are necessary.

Another activity of the department is the planning and supervision of the various exhibits at industrial shows, such as the Foundry Show, National Metals Exposition, Chemical Show, etc. At these shows new equipment is introduced, standard machines displayed and demonstrated to thousands of interested executives, production men and engineers.

Feature length technical articles, publicity releases ranging from brief announcements of new personnel, publications or improvements in equipment to fully illustrated stories are written in this department. Here too are prepared the articles of a technical nature describing new processes and unusual and interesting application stories.

Market research is another function of the department. Some of the broad aspects of such a program include the investigation of new markets and new uses for equipment and the study of business trends and potentials as a guide in control of sales and advertising efforts.

In addition to these major activities, a great many miscellaneous functions are handled in the department. Included in this category are staging photographs of equipment in the process of assembly in the plant, assistance to various other departments on printed material and promotional pieces, preparation of industrial movies and slides for showing at technical meetings, employee meetings, etc., storage and inventory control of catalogs, stationery, office forms and miscellaneous supplies.

RCIALS



Much of "American's" advertising is based upon application stories and performance case histories of what the Wheelabrator and other "American" products have accomplished. To obtain the necessary information and photographs of installations, field trips are regularly made. In the picture, taken at Griffin Wheel Co., Detroit, Market Research Engineer, LE ROY VIESCHHAUS and Assistant Advertising Manager ROBERT E. SCHALLIOL, were obtaining performance data and photographs of the Wheelabrator special Cabinet used at that plant for cleaning railroad car wheels.

The complete preparation of the monthly employee magazine, "American Parade" is handled by MARJORIE FRAZEE. This entails news gathering, photography, writing and preparation of each issue for printing. Final copy is approved by Robert Schalliol.



DORIS JENKINS is responsible for the maintaining of a mailing list of approximately 25,000 personal names. These lists are divided into a general mailing list keyed for various products in the "American" line, and special lists, including that from which PARADE is addressed and mailed. The checking of these lists to assure accuracy of all stencils and the addressing, stuffing, sealing, bundling and sending out of all direct mail, requires the services of GEORGIANNA RICHARDSON, BARBARA MILES and LYDIA RICCI. Lydia also operates the small offset press for printing letters, memorandums, forms, etc., for all departments.



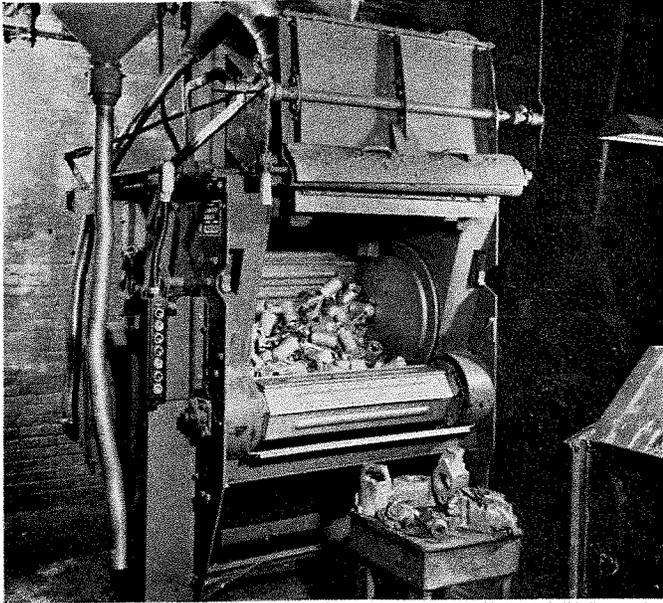
Correspondence and the typing of all copy material is handled by stenographers DORIS McGRAW (left) and MARTHA KEMP (right).



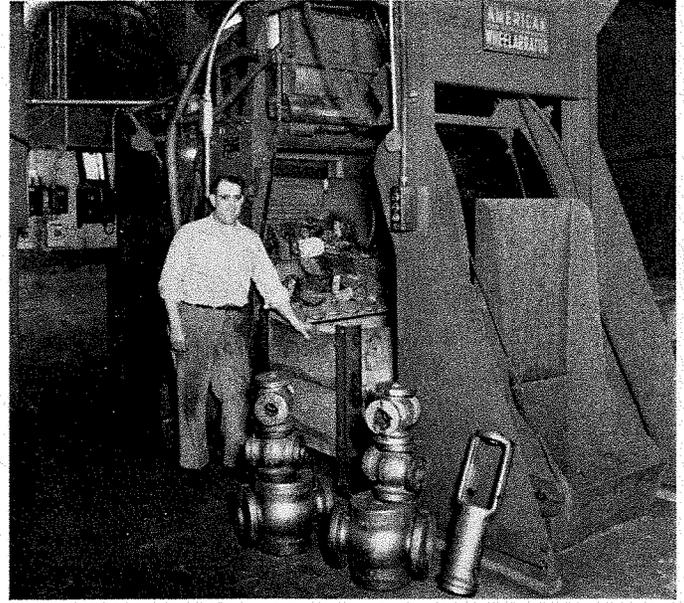
27" x 36" Wheelabrator Tumblast

The 27" x 36" Wheelabrator Tumblast, with 5 cu. ft. cleaning load capacity, is one of the most popular machines in the Tumblast line. Being a light duty machine, it is ideal for cleaning small castings, forgings and other types of metal parts. This size machine is available with either the steel slat type conveyor or an endless rubber

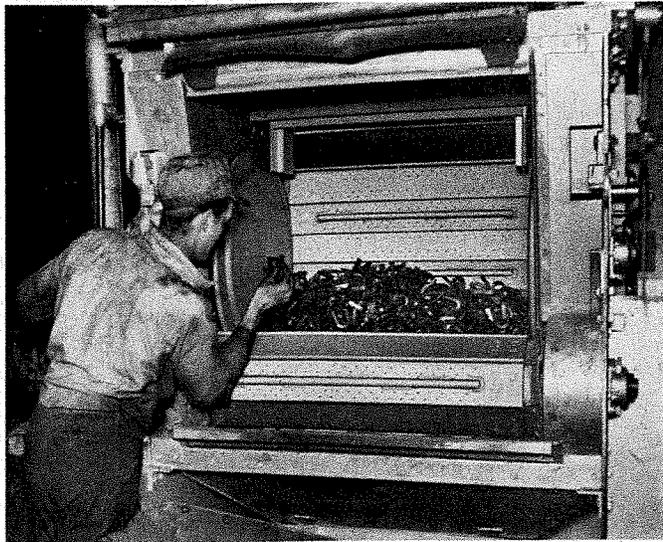
belt conveyor. For work requiring extremely gentle tumbling action, the rubber belt machine is recommended. The installation photographs show some of the large variety of parts cleaned in this size machine.



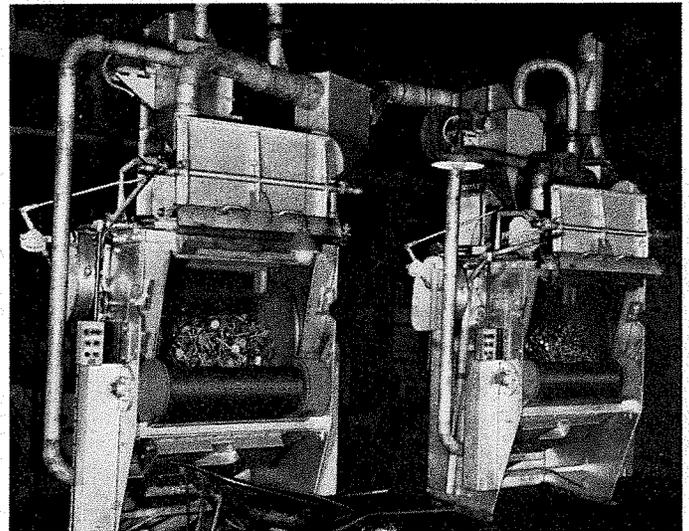
Chicago Pneumatic Tool Co., Cleveland, Ohio purchased a 27" x 36" Wheelabrator Tumblast in 1945. In the first load, 600 small bronze castings about 3" in diameter, were cleaned in 5 minutes—this load had previously required 8 hours to clean in a small suction blast. The second load was thirty 2½ ft. long air hammer tools, mixed with some wrench sockets—a five minute blast time cleaned them perfectly. This was followed by a load of small bushings—six minutes later these were ready for a rubber coating; the perfect Wheelabrator finish providing a good bond.



Blue Valley Foundry Co., Kansas City, Missouri, purchased a 27" x 36" Wheelabrator Tumblast early in 1945. With it they cleaned, in from 2 to 4 minutes, loads of valve castings weighing from 200 to 670 lbs. The rapid cleaning time contrasted to the former situation where castings were always piled up in the cleaning room, made the plant look as though they were holding open house every afternoon. In fact, the Tumblast was so fast, it would clean their entire week's production in 14 hours! Later they also cleaned large castings weighing approximately 180 lbs. each in the same machine.



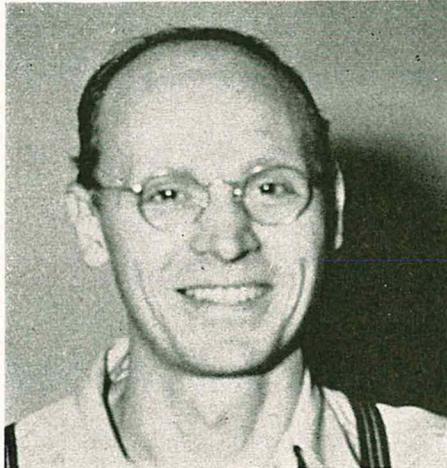
Accurate Steel Treating Co., Chicago, a job shop, cleans gears, shafts, splines and miscellaneous parts in their 27" x 36" Wheelabrator Tumblast, and have since its installation in 1938. In the photograph, magnets, such as used in laboratories, are being cleaned of forging scale.



Forged piston valves are cleaned in 27" x 36" Wheelabrator Tumblasts with rubber belt conveyors at Wilcox-Rich Div., Battle Creek, Michigan. Both large airplane and Chevrolet valves are cleaned in loads averaging 1000 pieces each.



Maurice Van Poelvoorde



MAURICE VAN POELVOORDE came to work February 20, 1934 in his Sunday suit . . . that is the last time he did that. During the depression Red had been unemployed for a long time; when his friend Andy Stevens drove up to his home and asked how he would like to come to American to work. Red didn't even take time to change his clothes. The cleaners put the suit back into condition to make him presentable at church.

Red, Andy and another man handled all the stock room and receiving work for the Company then . . . of course, there wasn't as much work as there is now.

In his twelve years here, Red has made many friends, watched the company grow in size and importance, and contributed his part to its success. From receiving work, Red progressed to filling repair orders and then to helping in the stockroom office; for the past four years he has been the supervisor of repair order filling.

When he isn't working there are a variety of interests that take up his time . . . recently it has been gardening, both for feeding the spirit and the inner man. For the former he raises chrysanthemums of several colors and varieties—yellow, white, blue and gold; single stem and bush types. To feed Mrs. Poelvoorde and himself, the garden, under his green thumb, yields tomatoes, carrots, cabbage, onions, beans and so on . . . in fact all the vegetables they need for their table

Such a garden takes up a lot of time; so much the past few summers that the American soft ball team has had to get along without his services. In other years Red has played almost every position but catch.

While he says he is not a "joiner", Red not only played softball, but bowls with other fellow workers in a Bowlmore league.

For quiet recreation, the mystery radio show or movie rates tops. He enjoys the challenge to his powers of observation and deduction to see if he can solve the problem before the answer is revealed.

Interesting Sales

The Rich's (Bud and Bob) of the Chicago sales office, have sold a 66" Wheelabrator Swing Table to General Electric X-Ray Corporation, Chicago.

When you build this machine it might be interesting to reflect that when this piece of equipment is installed, it will clean welded steel assemblies, sheets, shapes, etc., for the X-Ray machines used by doctors and dentists.

General Electric X-Ray Corp. produces most of the X-Ray equipment seen in doctor's and dentist's offices. Formerly metal parts in this plant were cleaned by hand with a grinding wheel or with steel brushes . . . slow, inefficient and tedious.

★ ★ ★

The Eastern Venetian Blind Co. of Baltimore, Maryland has purchased a No.1B Suction Cabinet from T. T. Alverson. This unit will be used to remove paint from defective venetian blind parts, principally the channel or box which houses the control mechanism.

In painting, frequently too much is applied which is objectional from an appearance standpoint. When dry and a sufficient quantity to make a load is accumulated, they are blasted with sand, then repainted. Formerly they used a paint solvent to do this job, this was effective but messy.

Talks in Cleveland

M. I. Dorfan, manager of the Dust and Fume Control Division, talked in Cleveland, December 9 before the Northern Ohio Chapter of the American Society of Heating and Ventilating Engineers.

The talk "What's New in Dust Control" described various types of dust and fume control equipment. Mr. Dorfan then went on to point out that the ventilation engineer needed a knowledge of thermo-dynamics (mechanical action of heat) and that the dust control engineer must now supplement his practice with knowledge of the chemistry, not only for the gaseous constituents, but also of the solid constituents of gas and air.

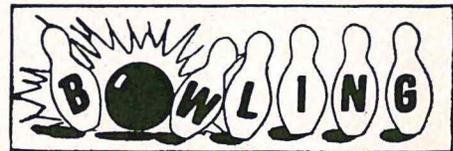
In the light of this, it now becomes necessary to evaluate the art of dust collection as a process art, rather than merely a nuisance or abatement art. Since dust control now becomes a process activity, all things available to the process engineer, such as the proper materials to resist corrosion, temperature, etc., should be adopted.

* * *

Pipe skelp is prepared for welding by Wheelabrating. Scale is removed from the edges of the steel plate to provide a virgin metal surface for welding. Four Wheelabrator units, adjustable as to position to compensate for the varying widths of pipe skelp, are utilized in this cabinet.

* * *

Both the world's largest and smallest batch-type airless abrasive blast cleaning machines are Wheelabrators. The smallest, the 15" x 20" Wheelabrator Tumbblast has a one cu. ft. operating load capacity and the largest, the 60" x 96" Wheelabrator Tumblast, a 63 cu. ft. capacity.



Vern Lott*	175
Maurice Roelands*	173
Harry Hixenbaugh	170
Walter Heiser*	170
John Dorogi	168
Ray VanDeWalle	167
Gene Dickerson	165
Charles DeCraene	164
Mel Pletcher	161
Edward Hixenbaugh	160
Joe Velleman	160
Andy Federnok	159
Ed Andrews	156
Gene Kempner	156
Joe Vicsek, Jr.	152
Dick Mecklenburg	152
Omer Boembeke	150
Carl Ritter*	148
Walt Schamel*	148
Willard Flowers	144
Charles Kedik, Jr.	143
Bob Gray	143
Vern Valentine	138
Don Karnes	138
Ernie Young	137
Emile DeVreese	138
George McNeile	135
Bernie Byrd	134
Ralph Mumby	134
James Curtis	129
Virgil Pope	128
George Roper*	125
Paul Bessmer	124
Arden Swanson	123
Levi Himes	119
Paul Kaufman	104

*Substitutes

MEN'S TEAM STANDINGS

	Won	Lost
Engineering No. 1	31	11
Maintenance	29	13
Stockroom	24	13
Steelshoppers	20	22
Research	12	30
Engineering No. 2	10	32



I think he used to be a waiter."



Eye to the Keyhole

Sing out the praise of fearless McNeile,
Who, one stormy morning, the news did steal.

With Irish courage, a foe he did stalk,
And rescued fair maiden—her face white as chalk!

Dauntless, unflinching, without even wincing;

With his faithful shillelagh, his prey did he slay!

Fierce was the battle, brutal and savage,
But the hero of Erin, by first name of George,
Smiling triumphant, held up by the mane
The audacious mouse in milady's domain.

The above was written by Armando Nicolini of demonstration, upon being informed of the mouse invasion of the research department.

* * *

It is said that the chickens in JOHN PROCACCINO'S (steel shop) neighborhood are vicious. One hen tried to cut John from firing the furnace—he had to cut off its head. Result: Chicken dinner. John also likes to pass out his own chocolate candy—his error was he thought the candy he was distributing was that belonging to PAUL KENNEDY.

* * *

CHAUNCEY PROUDFIT bought a new kitchen sink, but forgot to measure the space it was to fit. Result, the Proudfit's cannot open the window or shut the kitchen door—and it took 6 holes in the floor before he got the pipes in the right place.



"You wash and I'll wipe" isn't confined to the kitchen. PAUL STROMBECK washes the solution applied to the steel before Wheelabrator guard retainer bars are slipped into the pressing die. JACOB SHOEMAKER wipes them dry to prevent rusting.

Did you know WILLIAM ED CLARK makes a hobby of raising tender and delicious capons?

* * *

One rainy day JOE VELLEMAN went fishing in a lake forming off the shipping dock. No luck, not even a nibble.

* * *

BILL SNYDER (steel shop) went deer hunting. That's all—just hunting.

* * *

Did you receive a cigar celebrating the safe arrival of:

Douglas Clair, December 9, son of DOUGLAS SELLERS (machine shop).

Sharon Jo, December 9, daughter of EDWARD COLEMAN (inspection, foundry).

Susan Marie, December 14, daughter of C. A. SOENS (purchasing).

Geraldine Marie, December 4, daughter of HOWARD SEELEY (engineering).

Robert Wayne, December 17, son of HARRY HIXENBAUGH (engineering).

Sandra Lee, November 30, daughter of LEE KELLY (steel shop).

* * *

BILL FORE (shipping) won a brand new Kelvinator refrigerator on a 25c ticket. It's things like that that makes gambling fun!

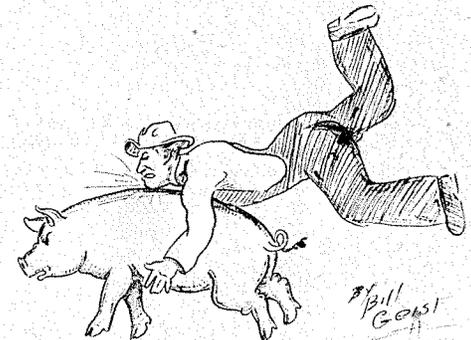
* * *

Mr. and Mrs. John C. Straub entertained the members of the research department and their wives (JEAN TRACY'S mother was her "better half" for the evening) Saturday, December 14.



CLAIR THARP, relief receptionist, smiles over the two lovely poinsettia plants that decorated our lobbies during the Christmas season. At a drawing, the large one was won by ATTEA BRONZETTI, the smaller one by ZOLA LECKLITNER.

★ ★ ★



The drawing describes how ARNEAL SQUIBB (steel shop foreman, second shift) got the scratched face. Farmer Squibb had a tough time making piggy return to his pen. The steel shop's considered opinion is that he makes a better foreman than pig catcher.

★ ★ ★

Practically all spring manufacturers use the Wheelabrator for shot peening coil and leaf springs. Increases in fatigue life due to shot peening range from 3 to 30 times the service life of unpeened springs.

* * *

Wheelabrating of malleable castings saved the Eberhard Mfg. Co., Cleveland, one and one-half hours per load over the previous tumbling method. Cleaning costs have been reduced to \$2.00 per ton for malleable iron.

* * *

Drum "laundries" use Wheelabrators for renovating steel drums. A steel drum properly handled and properly reconditioned after each use can make 15 or more trips before its useful life is ended. Several of the largest of these commercial plants use Wheelabrator cabinets exclusively for cleaning exteriors, interiors and covers. Production of one Eastern plant is above one-half million steel drums a year.

Making Jewelry

After the Japanese surrendered, C. A. SOENS of the purchasing department, then a soldier in the South Pacific area, found a lot of time on his hands. To pass it away, keep from going "nuts", and to provide the souvenirs Americans are so avidly interested in collecting, he started making jewelry.

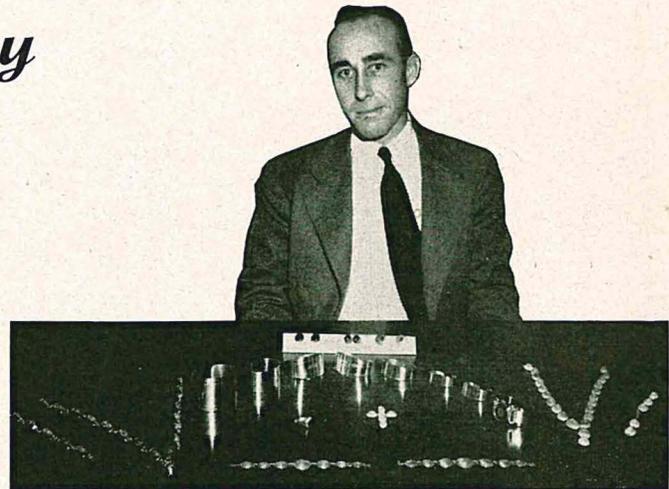
Using things at hand—shells, wire, aluminum, and similar materials, C. A. made bracelets, necklaces, earrings, crosses and watch straps. The watch strap business developed when a man lost a \$75.00 watch into the ocean because the strap had rotted away from the action of the salt water and perspiration.

C. A. still wears a watch strap he made in this manner; Using tin snips, cut a length of stainless steel, file to the desired shape, with emery cloth sand until the metal is flexible but firm—usually when two-thirds of the original amount of metal has been removed. Rivet two pieces of steel to this band to hold the watch, form to fit the wrist, engrave suitably and sell to an eager G. I. for \$20.00

Varying this activity, C. A. made necklaces from shells he had been accumulating—dark brown ones with white spots from the Netherland East Indies, white ones with a thin orange stripe from the New Hebrides, and others that came to hand. These, at first, were fastened together with wire from which the insulation had been skinned; later the air corps provided them with a supply of fine wire. This wire, C. A. formed into tiny springs which interlocked.

Metal, usually aluminum because it was readily available from wrecked planes and easily worked, was made into bracelets. All of C. A.'s cousins, nephews, nieces and other close relatives have one or more souvenirs he made for them.

When shells became tiresome, C. A. made bracelets from coins. The picture shows two made from Australian coins. The main links were easy, just drill two holes in the coin. But those small shield-shaped connecting links were tedious. They were fashion-



ed from the shield on the reverse side of the coin, carefully cut out of the coin with metal cutters, filed to even up the shield, polished, then attached to the coins. Since there was metal left when the shield was cut out, some of the bracelets were made with plain links—ten plain links could be made in the time needed to produce one shield. These bracelets represented about 85c in American money, but the time value is impossible to compute.

The cats eyes so highly prized by souvenir collectors are of various colors, each island seemingly produces a different color. C. A. wears a ring with a green one in it, set in a ring cast from six Australian coins, another of his creations.

All of this work was done with a pair of tin snips, emery cloth, a file, hammer, pair of metal cutters, and one home made engraving tool, plus imagination and infinite patience. C. A. estimates he realized a \$400.00 profit from his labors.



Julianna Christmas Party

It was a little difficult to believe, but those 60 lovely, exquisitely groomed women having dinner at the Oaks December 16, were all workers at *American*. Accustomed to seeing each one in her work-a-day attire, the sudden metamorphosis into models out of the pages of *Vogue* and *Mademoiselle* was startling and gratifying.

This was the largest Christmas dinner ever given for women *American* workers. Co-chairmen were Zola Lechlitner and Mary Brenneman, assisted by: Jean Tracy, favors and decorations; Kathryn Glass,

entertainment; Agnes Ernst, reservations; Betty Buck, transportation; and Marjorie Frazee, publicity.

There was, in addition to the bountiful meal, a Christmas tree with gifts for everyone present. The Christmas motif was carried out by floating poinsetta candles—candles that refused to stay lit—lighted tapers and nut cups.

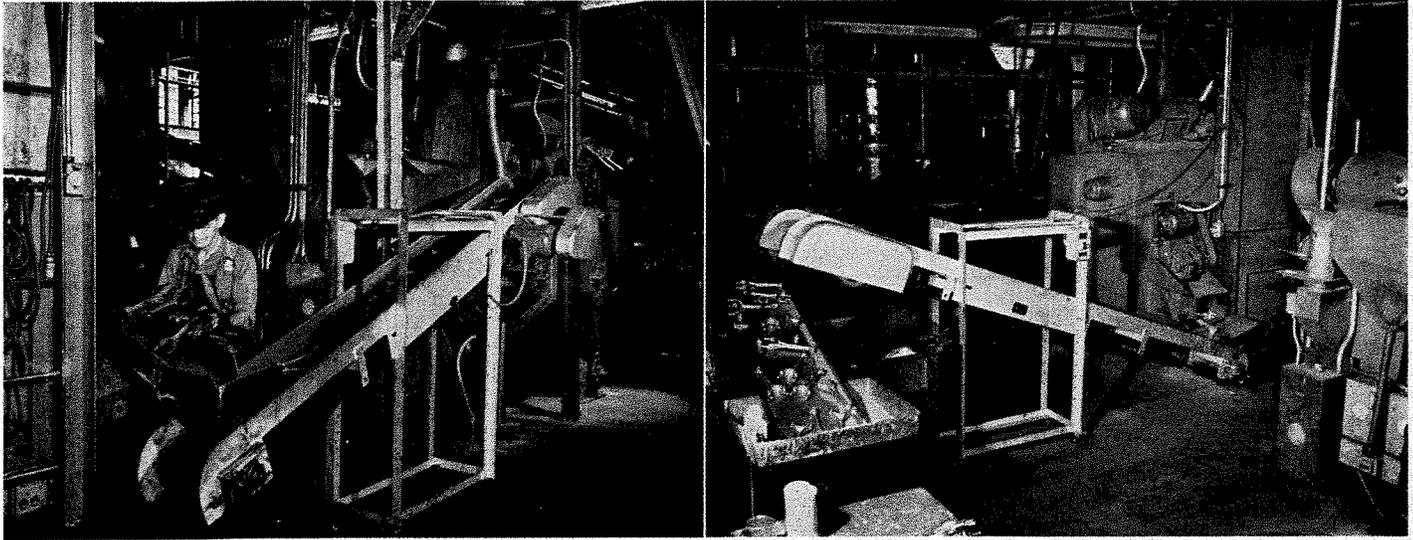
For entertainment June Sparks, accompanied by Martha Kemp, sang "The Old Lamp-lighter", Attea Bronzetti, accompanied by Emile Behnke, sang "Jesu Bambino", and

Marietta Guy, accordionist played—sometimes accompanied by the massed voices of 60 girls present.

The dinner which began on time—a feat in itself—testified to the careful planning of the officers and committees.

The surprise of the evening came when Julianna Club president, Lucile Simcox, announced that because the Club's sale of candy, cookies and cake had been so successful, the dinner check would be paid by the Club rather than by the individual girls as had always been the custom.

Wheelabrator *Continuous* Tumbblast



Left: Operator loading connector rods onto conveyor belt for cleaning in the Wheelabrator Continuous Tumbblast installed at Ford Motor Co. Right: Cleaned connecting rods leave the Continuous Tumbblast and are carried away from the machine by an endless belt. Below at right: Connecting rods tumbling inside the Wheelabrator Continuous Tumbblast.

The Wheelabrator Continuous Tumbblast of the type installed at the Ford Motor Co. and at the Borg-Warner Mfg. Co. gives promise of becoming a popular type of machine. It has the advantages of having a cleaning capacity approximately twice that of comparable batch-type Tumbblasts, of being ideally suited for production line operation, and of being moderate in maintenance requirements.

Since the cleaning capacity of any blast cleaning machine is primarily determined by the amount of abrasive thrown and the length of time the machine is in actual operation, it is reasonable to expect that the Continuous type of Tumbblast will have a production capacity approximately twice that of a batch type Tumbblast having the same size and number of wheels and the same mill capacity.

The reason for this is, of course, that the batch type machine is shut down about half of the operating day for loading and unloading operations, permitting the Continuous mill to squeeze twice as much cleaning time into the same working day. This has been proved in operation.

Several Continuous Tumbblasts have already been built and sold; however, they all vary considerably in design and construction, each having been designed for the specific work it was to do. This machine is a comparative newcomer to the Wheelabrator line and all types of parts that it will clean have not been determined as yet.

Tank track pins, tank track treads, cylinder heads, small coil springs, stampings, connecting rods, connecting rod caps, and small forgings similar to a bell crank about 6 or 8 inches long have all been cleaned in Continuous mills. Of course, to prevent

such a mill from being idle a good share of the time, the plant must have an exceptionally high production rate.

Ford Motor Co. installed their first Continuous Tumbblast in December of 1945 and were so pleased with its operation they ordered another one to be used exclusively for the cleaning of connecting rod caps.

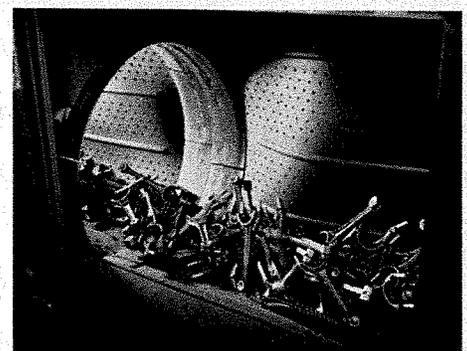
The Ford machine cleans the plant's entire production of 35,000 connecting rods in a 20 hour day and it is reported that, with two men loading, the machine has for checking time, reached a production of 120 rods per minute, which is equivalent to 144,000 rods in 20 hours! Previously they required four No. 1 Wheelabrator Tables and 6 men to clean 12,000 rods per 8 hour day.

★ ★ ★



FEBRUARY CALENDAR

- 3 Labor Union, Local No. 995 UAW—CIO
Day Shift: 5:00 PM
Night Shift: 2:30 PM
- 4 Bowling—6:30 PM, Rose Recreation
- 6 Athletic Assn. Board—4:30 PM
- 10 Safety Committee—3:30 PM, Stanley Krzeszewski's Office
Credit Union Board—2:00 PM
- 11 Bowling—6:30 PM, Rose Recreation
- 17 Safety films and talk—12:15 PM, Steel Shop
- 18 Bowling—6:30 PM, Rose Recreation
- 20 Athletic Assn. Board—4:30 PM
- 24 Safety Committee—3:30 PM, Stanley Krzeszewski's Office
- 25 Bowling—6:30 PM, Rose Recreation



The maintenance of a Continuous Tumbblast is about the same as required for a standard batch-type machine . . . so it is expected that American will be selling and building a lot more of these machines.

Turkey Check

The following is the text of Executive Bulletin No. 116, dated December 3, 1946.

"Following our custom of many years, the annual 'turkey' check of \$10.00 will be given to every employee of the Company who is on the payroll on December 15, including those still in military service.

"Nothing in the course of business gives your Officers and Directors greater pleasure than to sponsor this annual gesture of Christmas dinner 'on the Company'—a gesture of appreciation for your loyalty, confidence and good will.

"Our best of good wishes for a Happy Christmas are extended to every employee and his family.

—Signed OTTO A. PFAFF, President, for the Officers and Directors of American Wheelabrator & Equipment Corp.