

AMERICAN Parade

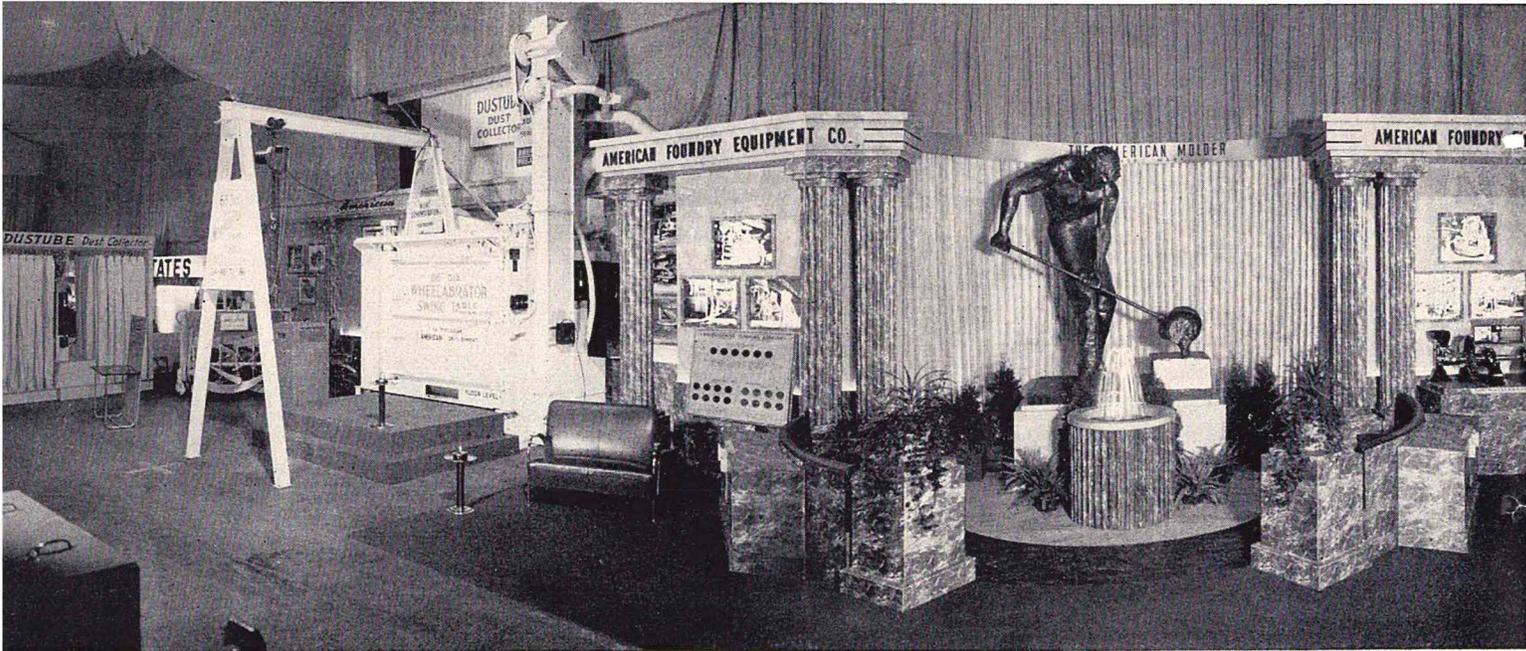
VOL. 5 NO.5

MAY 1946



The Court of the American Molder

1946 Foundry Show Cleveland, Ohio May 6-10



The American Foundry Equipment Co. display at the 1946 Foundry Show, Cleveland Public Auditorium. The display is 104' long by 20' deep, covering an area of 2800 sq. ft. It was seen by nearly 20,000 United States, Canadian and foreign foundrymen.

AFECO Has Largest Exhibit at 1946 Foundry Show

AFECO was among the 275 exhibitors who participated in the Golden Jubilee Foundry Show held May 6-10 in the Cleveland Public Auditorium. This exhibit was held by the American Foundrymen's Assn. in connection with their 50th Annual Foundry Congress. Nearly 20,000 engineers, superintendents, executives, and production men interested in modern foundry operation attended.

Our exhibit was the largest of any single manufacturer. It used an area 104' long by 20' deep. Displayed for the first time were the 66" dia. Swing Table and the 60" x 96" Wheelabrator Tumbler which has a cleaning capacity of 63 cu. ft. This is the largest airless blast mill ever built. Contrasted against this giant, was the small 15" x 20" Wheelabrator with a cleaning capacity of 1 cu. ft.

All of this cleaning equipment was ventilated by a Dustube Dust Collector. Each of the Wheelabrators was demonstrated in actual operation, attracting large crowds. Other products shown included an "M" Sandcutter, Wheelabrator abrasive, American nozzles and a special demonstrating model of the Dustube Dust Collector. An contest was conducted to emphasize the speed and ease with which filter tubes in the collector can be changed. The resulting low maintenance costs are a big selling point.

As a tangible evidence of the direct value of the Foundry Show, a number of orders for Wheelabrator and Sandcutter equipment were received. Almost without exception the salesmen were in complete agreement that this was one of the finest foundry exhibits staged in many years, not only from the standpoint of improvements in our own designs, but also in the number of interested prospective equipment purchasers who visited our display.

All AFECO salesmen, with the exception of those from the Southwest and Pacific Coast were in attendance during the time of the Show, along with officers, directors, and members of the Mishawaka sales, advertising and engineering departments. Various members of the manufacturing, engineering and office staff visited the Exposition and attended the technical sessions for one or more days to familiarize themselves with new equipment, processes and techniques.

On Monday, May 6, all AFECO salesmen attended a sales dinner meeting held in the Hotel Cleveland. A discussion of important sales matters was led by L. L. Andrus, Vice President in Charge of Sales.

The 60 x 96" Wheelabrator, the largest blast mill ever built, got its picture in the May 9 issue of the CLEVELAND PRESS. This newspaper considered the Wheelabrator that can clean three tons of castings at a time, of outstanding interest. A two column picture of this huge machine was used with the story covering that day at the Foundry Congress.

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ar, Sedon said, but now to cut
costs their use is extending to most
roduction plants. Machinery build-
ers use models and so do some of
the electrical and household equip-
ment manufacturers.
In a round table discussion of the
steel casting industry T. D. West of
West Steel Casting Co. today said
that foundries would have to boost
production and maintain wartime
standards to keep up with the rising
labor and material costs.
Osborn Manufacturing Co., large-
maker of industrial brushes in the
country, has put out a welcome sign
for all foundrymen with convention
feet. A strike prevented the dis-
play of the exhibit which was in-
tially turned into a plant
sit down and rest.
Biggest piece of equipment at the
Golden Jubilee is a blast mill made
by American Foundry Equipment
Co. of Mishawaka, Ind. It's the
largest airless type blast mill ever
built. It weighs 75,000 pounds and
cleans three tons of castings at a
time.
Parsons Engineering Co. has
participated where there are in-

63 cu. ft. Wheelabrator

THREE TONS OF CASTINGS at a time can be cleaned in American Foundry Equipment Co.'s "Wheelabrator Tumbler," the largest airless type blast mill ever built.

U. S. Denies Agreement With France on Loan
WASHINGTON, May 9 (U.P.)—A State Department spokesman said today that no final agreement has been reached with France on a proposed U. S. loan and that the amount of the loan is still under speculation. The report was issued by the State Department.

Doctors to Meet Here Next Week

THERE IS ALWAYS A BETTER WAY

For that reason, the Suggestion Committee would like to have your ideas on improving engineering design and simplification of manufacture on high production parts in our plant, such as:

Chain links	Control gauges
Wheelabrator wheels	Impellers
Tumblast flights.	Wheelabrator hubs
Liner plates	Tumblast sprockets

You men on the job can give us many ideas on how we can improve or simplify machining operations on the above parts. Worth while savings on these items will mean a substantial reward to you, and will also enable the Company to complete and sell at a lower cost. Many ideas on the above items are under consideration by the Process and Engineering departments, but you may have the answer that they are looking for.

Many jigs and fixtures for the above parts are also under consideration, but if you can improve the design that is being contemplated, you will also be eligible for a reward.

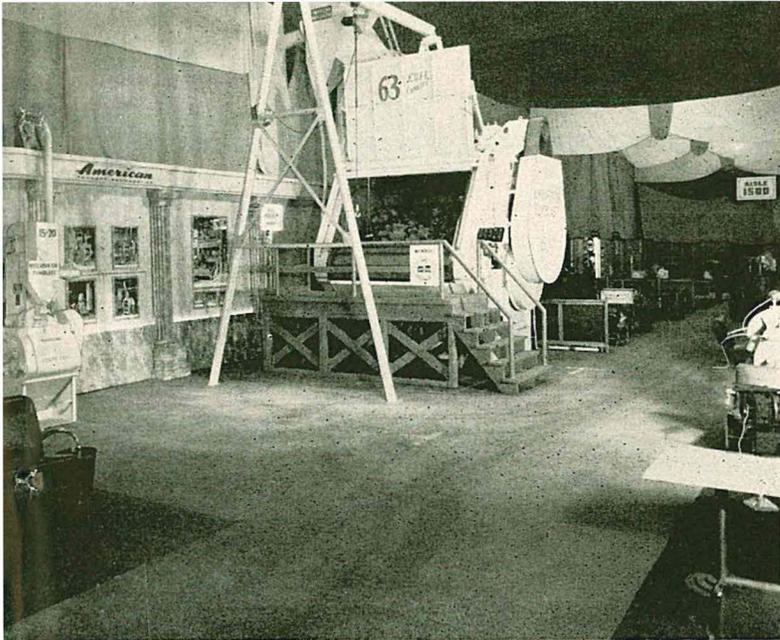
If you have a particular idea on these items, contact your Foreman before your suggestion is turned in. He will be in a position to inform you of the plans that are under consideration. If there are any other questions, contact any member of the Suggestion Committee or Mel Morris, Chairman.

vault were microfilmed about 3½ years ago. These drawings on rolls of film about 4 inches in diameter by 35 mm. wide, are stored in the bank vault. Approximately 750 drawings are photographed on every roll of lavender, noninflammable and non-explosive film.

The company that did the work sent their technician and equipment here to photograph the drawings. These films were then sent to their home plant, carefully checked and any imperfect prints were rephotographed. Now, every six months, all new AFECO drawings are sent to the company for microfilming.

Once the drawing (or any other paper) is microfilmed, facsimile reproductions, called Microstats, can be made by photographic projection in any desired quantity, either in the original size or in whatever reduced size may be required. The films can be printed on opaque paper, cloth or tracing paper.

The expense of filming is slight—about 10c for each drawing, regardless of size. This charge also includes insurance for one year for ten times the cost of the microfilming—almost enough to pay for the cost of reproducing the drawings in their original size.



James Evans points out a drawing on a roll of film, to Roy Guite. The roll of film that Roy is holding in his hand contains approximately 750 individual drawings.

OUR DRAWINGS ARE IN PICTURES

What would happen at AFECO if a disaster should destroy all or part of the engineering drawings? Those drawings that have been made for the 38 years AFECO and its predecessors have been in business . . . the drawings the men in our engineering department are working on every day . . . those original drawings from which are made the prints used in our factory, prints used by our sales engineers to sell a piece of equipment . . . prints used by our service engineers when erecting an AFECO machine.

Tragic!

A loss from which the company would be years recovering! But it isn't as bad as that. There would be a terrific loss . . . but not an irreplaceable one. For, should every drawing owned by AFECO be destroyed today, new copies could be in our hands in 48 hours!

The miracle of photography is the answer.

All 60,000 drawings in our engineering

SALES ENGINEER



JAMES H. THOMSON joins the Mishawaka sales department to handle correspondence, proposals and sales engineering work. He was assistant gunnery officer at Great Lakes Anti-Aircraft Training Center before going to Siapan to build the anti-aircraft training center there. Lt. Thomson later became the commanding officer at Siapan.

A mechanical engineering graduate of Purdue, his experience includes work on metal analysis at Yorktown Sheet & Tube Co., East Chicago and engineering for Clark Equipment Co., Buchanan, Michigan. Two of his biggest projects at Clark were the complete plant layout for the fabrication of truck axle housings and the modernization of their steel foundry.

IMAGINEERS

ROBERT BUNCH: Place bosses on center of fan spider casting 4541 in order to obtain a firmer clamp on the casting.

EUGENE HEIGHWAY: Redesign with a hinged top, fixture for testing D-4A cylinder. This will make it easier and safer to place casting in the fixture.

RAY HUTCHINS: Lay out and complete in make-up department, the rear baffle seal (37482). At present it is made in final assembly. This will eliminate customer having to punch holes, etc. when ordered as a repair part

GLEN MARTIN: Change item 5 on BM 49010 and 49015 to bar stock so these parts will not have to be straightened before being welded.

FRANK RENDEL: Eliminate carrying two extra parts in stock by redesigning into one, the three different style pins used on the "AM" Sandcutter cutting cylinder stop brace and adjusting rod.

NEAL RODGERS: Add a hand hold bar to the top of the Tumblast near the Wheel guard. This will eliminate the possibility of a man's hand being caught in the wheel when climbing on top of the machine.

CARL PETERSON: Remove boss from the radial arm castings, 44105 and 44106 that is used for take-up screw. In its place weld a block with a $\frac{5}{8}$ " taped hole in it. This will make a better fit and save time and tools.

FRED BISHOP: Redesign jig used in sawing off the gate of the fan wheel by fastening $4\frac{1}{2}$ " legs on the bottom and adding a piece of metal at the top back. The jig may then be used to hold the fan wheel while polishing, will be safer to use, save time and wear on the saw.

MAURICE ROELANDTS: At present the wiring on the mill at station A 14 obstructs the use of the boom to load heavy castings into lathe at A 8. By rewiring the mill and installing a boom two feet longer than the present one, heavy work may be done on lathe at A 8.

LEWIS SHIDAKER: Identify seal retainer adapter place for the mill drive guard on the 48 x 72" Wheelabrator Tumblast. This will make it possible to carry the part in stock for repairs.

GEORGE THARP—Weld chain parts 47089 and 49075 shut. This will save time and make a stronger connection.

HERMAN G. FRIES—Carry right and left hand frame plates under one number as they are identical. This will eliminate production and storage of an extra part.

CHARLES KRAUSE: Make a keeper bar from $\frac{3}{16}$ " x 1" bar stock as a locking device on the "M" Sandcutter. This will prevent the lever from unlocking if accidentally bumped. A safety feature and eliminates possibility of wheels locking.

CLEANING MISHAWAKA'S METERS

All Mishawaka residents obtaining their water from the city mains and in the future have their water meters replaced, will probably receive one reconditioned with an American No. 1B Suction Airblast Cabinet.

After a water meter has been in operation for a considerable length of time, a lime and scale corrosion occurs at various places in the unit. These meters must then be replaced and the old ones reconditioned. Every year approximately 1500 are brought into the Mishawaka City Water Works repair shop for reclamation.

The former method of cleaning the corroded areas, consisted of pickling (using acid to eat away the scale) the brass housings. The acid used has a tendency to pit the brass surfaces making removal of all acid difficult. When the meters were replaced in operation, the acid combines with the water to form copper sulphite, reducing the accuracy and efficiency of the meter.

The Mishawaka City Water Works brought their cleaning problem to AFECO. After a number of tests were run in our demonstration department, it was determined that a No. 1B Suction Air Blast Cabinet, ventilated with a No. 1B Assembled Dustube Dust Collector was the unit needed to do the job.



No. 1B Suction Air Blast Cabinet with door open to show meter in cleaning chamber. No. 1B Dustube Dust Collector in the background.

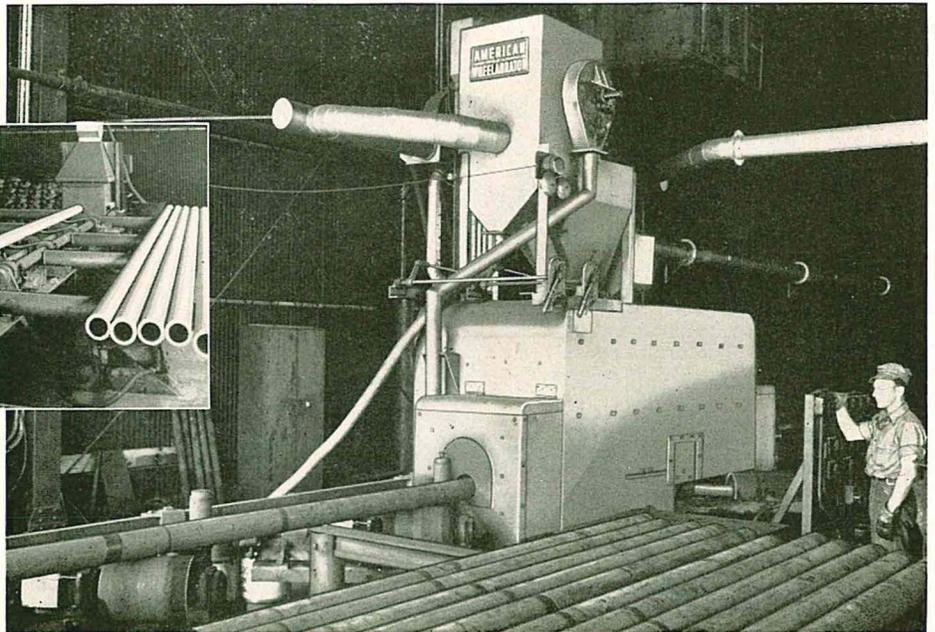
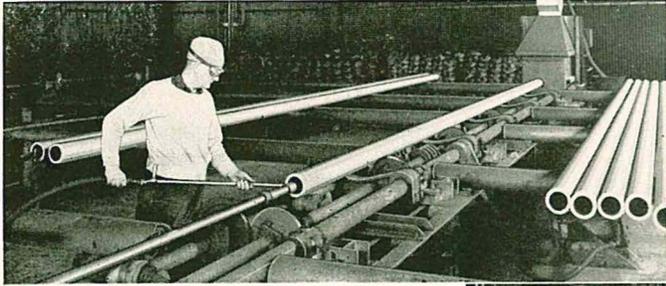


Various water meters and parts cleaned in the American Suction Air Blast Cabinet.

These units are now installed. Whereas it had formerly required from 15 to 30 minutes to pickle the meter housings, the same job is now done in approximately 4 minutes in the Air Blast Cabinet. A savings of 50c on every meter reconditioned is estimated.

Mr. A. R. Klein, superintendent of the Mishawaka Water Works, says this same problem is present in every city water department, and that from 10 to 20% of all meters in operation, are reconditioned annually. Since Mishawaka is a relatively small city, all cities of the same size or larger, should be in the market for equipment to solve this problem. An investigation is now being made by our market research engineer, LeRoy Wieschhaus, as to the possibilities of this market.

THE PIPE DREAM THAT CAME TRUE



AFECO engineers were called to the National Supply Co., Spang-Chalfant Div., Ambridge, Pa. to make a thorough study of their pipe cleaning problem. After investigation we designed and built a cleaning system that has been highly successful. Airless Wheelabrators cleans the outside of the pipe, air blast descales the interior.

The complete system, installed in September of 1940, cleans several sizes of pipe, but for purposes of example, 4½" standard low carbon pipe is being cleaned 18' per minute for the exterior and 14' per minute for the interior!

A special cabinet, housing two standard Wheelabrator blast wheels, is used for cleaning the outside of the pipe. The wheels, both of which are mounted in the bottom of the cabinet, blast upward and in direct line with the rotating pipe as it passes through the cabinet on a conveyor mechanism.

Travel of the pipe on the conveyor rolls through the cabinet is continuous—loading being handled at one end of the cabinet, unloading at the other. As the complete length of pipe enters the cabinet, another pipe is rolled into position for entry into the blasting area. After external cleaning, the pipe is automatically rolled off the conveyor onto skids preparatory to internal cleaning.

The air blast machine, specially designed for cleaning the interior of the pipe, is located adjacent to the Wheelabrator Cabinet. As the externally cleaned pipe leaves the Wheelabrator cabinet, it is rolled on skids to the air blast machine where cleaning of the interior is accomplished with a lance type blast nozzle long enough to blast the entire interior surface of the long pipe.

This nozzle is inserted into the end of the rotating pipe, which is supported on revolving steel discs. Both the speed at which the pipe rotates and the feed of the nozzle can be regulated to obtain the most effective cleaning.

Pipe cleaning machine installed at Spang-Chalfant Division of National Supply Co., Ambridge, Pa. Large picture shows machine for cleaning exterior of pipe. Inset shows interior cleaning.

TURNBULL MADE CONSULTING ENGINEER



D. C. TURNBULL

On May 1, DAVID C. TURNBULL assumed his new duties as Consulting Engineer for AFECO. This relieves him of his chief engineer's work, leaving him free to devote his knowledge and experience to giving helpful assistance to all of our expanding engineering activities.

In May of 1933 Mr. Turnbull came to AFECO to work on the development of the Wheelabrator wheel. Five months later he was made chief engineer, the position he has held since that time. His patience, kind-

ness, good humor and ready wit have always enabled him to give and secure the utmost cooperation from those who worked with him.

No matter how busy he is, Mr. Turnbull always gives help or advice to anyone who asks or needs it. As consulting engineer his high purpose will be to impart his considerable engineering knowledge to newer members of our engineering staff and in every possible way to help develop the highest standards of engineering practice and accomplishments for the Company.

More than 20 patents have been assigned to him, chief among them being the Tumblast loader and the continuous Tumblast designs.

Before coming to AFECO he had taught mathematics, was foreman of the wheel department of the Florence Wagon Co. and was affiliated with the Dodge Mfg. Co. During the 29 years David Turnbull was at Dodges' he progressed from a tracer to the position of Chief Engineer.

While his interests are many and varied, the First Methodist Church of Mishawaka and the Boy Scouts claim the biggest share of attention. For many years he has been interested in stamps; now he not only has a large collection of them, but is considered an authority on the subject.

Hi Dad!

In many foreign countries, and in our own in years gone by, it was the custom for a son to follow his father's craft or business. Such is not the case in the present day. However AFECO has 24 fathers with sons or daughters who also work at AFECO. This number does not include the men whose sons were employed here and are now in the armed forces.

Since Father's Day will be celebrated June 16, it seems appropriate that PARADE present these father's and their children now.

In most cases the father was first employed by AFECO and the son or daughter grew up knowing about AFECO and selected this as a good place to work. However, in a few cases, the son was here first and dad followed. Few of the father-son or father-daughter teams work in the same departments or on the same shifts.

In each of the following teams, the father is listed first.



JOSEPH ACSAI, SR., group leader assembler machine shop; JOE, JR., electric furnace operator, foundry.



OSCAR BATSON, drill press operator, machine shop; CHARLES, trucker, steel shop.



HARLAN BYRD, crater and packer, shipping; EDDIE, sheet metal worker, steel shop; ELMER, assembler, steel shop; HOMER, semi-layout, steel shop.



ROBERT BUCK, maintenance and set-up man, steel shop; BETTY, file clerk and switchboard operator.



ALVA BRICKER, welder, steel shop, night; WALTER, lift truck operator, steel shop, night.



CLAUDE CANELL, engine lathe operator, machine shop night, VELDA, night production office clerk.



DELBERT DARE, SR., stock room order filler, night; DELBERT, JR., tool crib tender, night.



PETER DELARUELLE, material mover, steel shop, night; MARTHA, Multilith operator.



GEORGE DOTY, foundry molder; WILLIAM, low crane operator, steel shop.



HAROLD GAY, night supervisor cabinet line, GEORGE, electrician, steel shop.



FRANK GEHL, foreman inspection; BERNARD, foundry grinder.



WILLIAM HENSEL, laborer, steel shop; GORDON, welder, steel shop.



WILLIAM KAUFFMAN, SR., foreman shipping; **BILL JR.**, maintenance yard man.



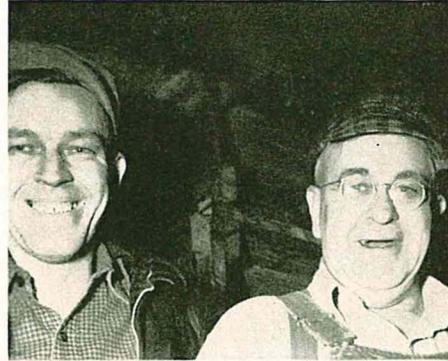
ELMER A. RICH, salesman, **ROBERT**, and **ELMER B.** salesmen. Chicago office.



WILLIAM RAABE, toolmaker, machine shop; **DON**, assembler, machine shop.



JEPHTAH MINNES, power brake operator, steel shop; **WILLIAM**, shaper operator, machine shop, night.



MELVIN RODGERS, assembler, steel shop night; **NEAL** gang leader, steel shop assembly.



GLADSTONE SMITH, Radial drill press operator, machine shop, night; **JOHN**, engine lathe operator, machine shop, night.



ALFRED MOORE, toolmaker, machine shop; **VIRGINIA**, secretary.



DAVID TURNBULL, consulting engineer, **ROBERT** service engineer.



RALPH WHITTAKER, steel shop superintendent; **MAX**, tool maker, machine shop.



OCEANIOUS SNYDER, foundry gang leader; **DALE**, sheet metal helper, steel shop night.



HARRY SMITH, special process assignments; **FRED** and **ALBERT**, service engineers.



GEORGE WILFRED, SR., sheet metal helper, steel shop; **GEORGE JR.**, sheet metal make-up, steel shop.

ENGINEERING ASSISTANT



C. R. CLINE

CHALMER RICHARD CLINE is the newly appointed engineering assistant to the president whose function will be to keep Mr. Pfaff informed on all engineering problems, research, development and achievements at AFECO.

Mr. Cline, who is still on terminal leave from the Army where he served as a Major in the Ordnance Industrial Service, is a chemical engineer by training and a mechanical engineer by experience.

An extensive business experience background ably fits him for the position he will hold. He was a sand conditioning engineer for Commercial Steel Castings Corp., a fuel and combustion engineer for National Steel and Tube; a machinist for Thew Shovel Co.; engaged in industrial gas research for the American Gas Assn.; sales engineering for American Manufacturing Co. who build industrial combustion equipment; and has taught heat treating at the University of Cincinnati, physical chemistry at the Lorain Institute of Arts and Sciences, Lorain, Ohio; and industrial furnace design at the John Huntington Institute, Cleveland.

His reserve commission was granted while attending the University of Cincinnati and five years ago Mr. Cline was called to active duty with the Army Ordnance Department. During most of his tour of duty he worked with twelve manufacturers of Army ordnance material to facilitate their production as if all plants were divisions of the same organization.

During the latter part of the war, Mr. Cline served in the Philippines and Japan as a technical intelligence officer on General MacArthur's staff. In this capacity he and other Army engineers examined enemy equipment and production facilities to determine their technical capacity and engineering skill.

Mr. and Mrs. Cline have a daughter Gwendolyn, and a son, Richard.

Several of his writings have been published in such technical magazines as *Industrial and Engineering Chemistry* and the *London Gas Journal*. The American Gas Association had him prepare two of their official books and for the use of the Army War College, he wrote a history of the work of the Army Ordnance Department during World War II.



JEAN A. TRACY

So I said to her: "But why waste time standing in line to buy a pair of nylons, ya can't see them under slacks anyway?"

Sales Territory Changes



E. P. CLARKE

J. F. UNDERWAY

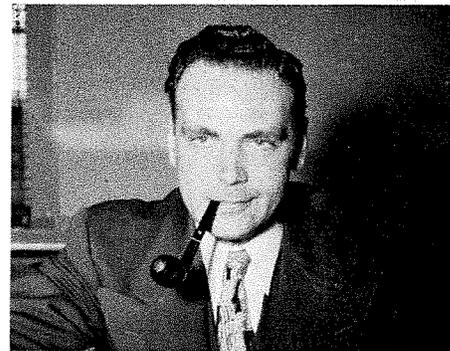
EDWIN P. CLARKE has been assigned to the Houston, Texas sales office. The sales territory includes Louisiana and most of the Lone Star state. Since November he has been working in the Mishawaka sales and engineering departments becoming familiar with AFECO equipment.

Ed, a graduate of Miami University, Oxford, Ohio, came here after a three year association with the U. S. Rubber Co. Mishawaka, where he was chief project engineer of the fuel cell division. It was in this division that the self sealing fuel tanks for B-29's were built.

JOSEPH F. UNDERWAY has been transferred to the St. Louis sales office from Houston. This territory includes all of Missouri, Arkansas and Oklahoma and parts of Illinois and Kansas.

Before becoming the sales representative for AFECO in Houston, Underway spent nearly a year there doing service work on American equipment. This enabled him to become thoroughly familiar with our machines and with the companies who were potential prospects for sales. Michigan State College at Lansing and Lewis Institute gave him his formal education. Previous to his association with AFECO he was a field engineer for East Texas Electric Steel Co.

CHIEF ENGINEER



K. H. BARNES

KENNETH H. BARNES has been appointed chief engineer, effective May 1. It will be his responsibility to supervise the work done by our engineering staff, assign work to the various men, determine which men are to handle the various problems AFECO is called upon to solve, direct the work of preparing proposal drawings, and designs for all new equipments and improvements of present designs. Engineering for all machines in the American line will be in his charge.

Since AFECO is expanding so rapidly and our engineering department is being called upon to handle more and more work; Ken's duties are of supreme importance to the progress of the organization.

To the position he brings formal engineering training and 13 years practical experience. In 1933 Michigan State College, East Lansing, Michigan conferred on him, a degree in Structural-Civil Engineering.

After graduating from college and before coming to AFECO, he was engaged in plant engineering. 1936 saw him working in our engineering department preparing proposal drawings, design engineering and related work.

When the pressure of selling war equipment demanded that the work be handled by men with exceptional engineering ability, Ken was transferred to the Mishawaka sales department. For the past five years he has handled the sale of specialized Wheelabrator equipment.

His ability to grasp a problem, work out a solution and present it to the prospective customer in understandable, clear, technical or non-technical language was a big factor in the outstanding record made by AFECO during the past years.

Since so much of Ken's time is spent at work, overtime is the rule rather than an exception. Sometime ago he undertook to teach his son to play golf, now Calvin is as good as his dad.

The American Foundrymen's Association and the Mishawaka Lodge No. 130 Free and Accepted Masons number him among their members.



WILLIAM SHULTZ, left and RAY HUTCHINS, right, have each submitted five accepted suggestions. For this, each man was awarded \$5.00 in addition to the regular checks for their ideas. Imagineering Pays!



SEARCHING FOR NEW FIELDS TO CONQUER

To fill a long felt need in the Mishawaka sales promotion program, an extensive market research program has been organized. LeRoy Wieschhaus, a graduate of Notre Dame University, with considerable industrial experience, is already immersed in the details of this function. His activities will soon be felt throughout the organization.

What is market research? It is studying the various fields of industry to discover operations and methods that can be replaced by use of present or adaptations of AFECO products.

For years AFECO has carried on an extensive research program . . . Our demonstration and research departments are constantly at work on new applications, new uses and refinements of known applications. There are many new uses to which Wheelabrator can be put, uses which will both benefit the consumer and sell more pieces of equipment.

Rather than wait for the customer to come to AFECO with their problems to be solved, AFECO market research will seek out problems and applications; engineering and research will work out the machine, and the salesman will be able to offer it to these industries . . . equipment that will do the job better, faster, cheaper . . . equipment that will enable the industry to turn out a better product.

It undoubtedly follows that the field for sales of AFECO products will be considerably widened and increased. Applications for AFECO machinery seem to be unlimited and market research is out to open up the new fields.



QUESTION: "How do you plan to spend your vacation this year?"

FLOYD MILLER—Machine Shop—"My house needs painting. I suppose that will be my vacation."

CURLY HOUSAND—Demonstration—"The first week we're going to visit my home town. The second week I'M going fishing."

A. K. SQUIBB—Steel Shop, night—"My vacation will be spent farming."

DECATUR JAYCOX—Inspection—"I'm going to Wyoming, near Cheyenne, to search for jade and sapphire."

HOWARD KEHRL—Steel Shop, night, **PATTY SHIPLEY**—Office, **BETTY LINSERMIER**—Office, **CHARLES KWASNY**—Stock Room, **DICK MECKLENBURG**—Engineering, and **ED HUEMMER**—Office, will spend their vacations honeymooning.

RAY VAN DEWALLE—Engineering—"Fishing and ball games will fill up my vacation."

ESTHER LINN—Engineering—"My time will be spent sitting in the front yard and reading the newspaper."

BOB WHITAKER—Steel Shop—"I'm going to Alabama to visit my kin folks."

CHARLES KRAUSE—Steel Shop—"Fishing!"

AL JELDERS—Steel Shop—"Vacation will be spent either in Minnesota or making a garden."

ART LOVELL—Machine Shop—"Sterling, Ill. will be my vacation spot."

HECTOR SHEEHAN—Machine Shop—"I'm going to paint my house."

BOB AGLER—Machine Shop—"A trip to Florida will be my vacation."

VIRGIL McFALL—Machine Shop—"I am going back to my home in Lawrenceburg, Tenn."

CARL BRITTON—Steel Shop, night—"Fishing will take up my holiday."

BILL SNYDER and **HAROLD GAY**, Steel Shop, night—"Fishing for us."

AUGUST WEINKAUF—Machine Shop—"I plan to get in a little fishing."

MILDRED FORE—Office—"My plans aren't definite yet, but Saugatuck, Michigan, where I spent last vacation, tempts me. Oh, the wonderful food! The outdoor sports! And it is close, too."

RALPH SMITH—Machine Shop—"Des Moines, Iowa, my home town, will be visited."

ROBBIN WALL—Engineering—"Remodeling my house will take up the vacation period."

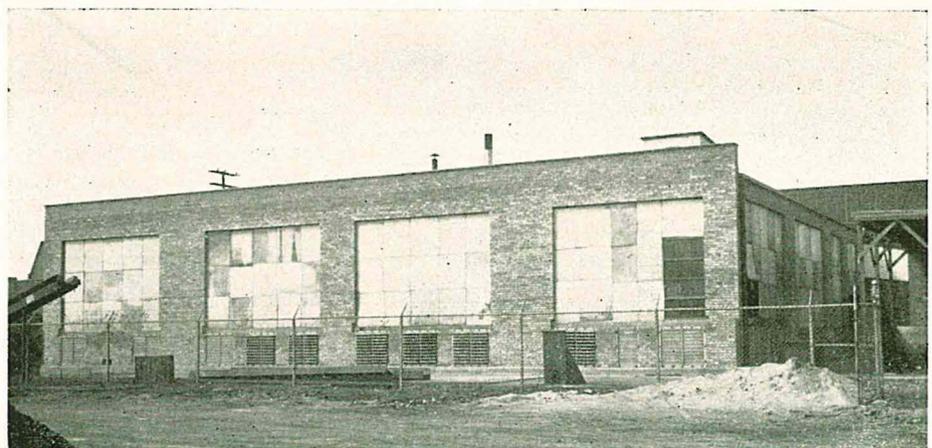
CLYDE SNYDER—Engineering—"One week of my vacation will be spent overhauling my car."

PHIL JOHNSON—Engineering—"Building my house will take up the time."

I never knew a woman to plead a headache when the occasion was one of her own choosing.



- ROBERT E. AGLER
- JACK W. EWBANK
- EUGENE L. HARTMAN
- STANLEY M. HES
- KENNETH RADERSTORF
- ROBERT I. JONES
- DALE N. MARTIN
- RICHARD N. NEELEY
- JAMES L. STEVENS



A normal, healthy child outgrows his clothes from one season to the next. An adult stops growing when about 20 years of age. AFECO has been normal and healthy for most of its 38 years . . . well into the adult stage; but it seems to continue outgrowing its facilities . . . and new additions must be erected to take care of the expanding activities. The latest addition is this new core room being built at the west end of the foundry.



Eye to the Keyhole

When the 14th Annual Mid-West Group V Student Conference of the American Society of Mechanical Engineers met at the University of Notre Dame, April 29 and 30, JOHN C. STRAUB, research department head, made the principal address at their Monday evening banquet meeting.

In his talk, entitled "Shot Peening," Mr. Straub discussed the overall picture of peening, how it is done, its effect on fatigue life of metal parts, its advantages and the equipment for peening.

This group of approximately 125 junior and senior students from 15 prominent mid-west colleges and universities, are all members of the Student Branch of the ASME.

The next day this group of future engineers and the professors who accompanied them to the meeting, made an inspection trip of our plant.

Comment by JACK EW BANK, Machine Shop, after drinking four bottles of milk and several bottles of chocolate; "I believe I was a wee bit thirsty!"

* * *

TATE GROVE (Steel Shop) went fishing at Baugo Creek and fell off a long branch of a tree that was hanging over the creek. When he came up his pockets were full of fish . . . so the story goes.

* * *

GEORGE FAIRCHILD (Machine Shop) lost a thumb nail clean as a whistle. It was so neat a job, the nurse didn't even have to trim, just sent him to doctor who put the thumb in a cast so he could work while it was healing.

* * *

Keeping up with the progress in our own fields is necessary. To help with this, nurse HAZEL KALE attended the annual convergence of the American Association of Industrial Nurses in Chicago at the Hotel Sherman.

* * *

Easter Bunny brought the big girls flowers this year. It was orchids, real ones, for JEAN TRACY (Research), PATTY SHIPLEY (Files) and MARJORIE FRAZEE (Advertising). VIRGINIA MOORE (Purchasing), and MARIE DAVIS (Accounting), were wearing roses.

* * *

The stork delivered Michael Dennis Groh to Mr. and Mrs. HAROLD GROH (Demonstration), April 12, 1946. Mr. and Mrs. BILL BRANNON'S daughter Karen Eilye was born April 4. Bill is a Steel Shopper.

ELLEN DOSEMANN and PATTY SHIPLEY were co-chairmen of the Rough-It party held recently in Castle Manor by the Julianna Club.

A picnic supper—weiners roasted in the open fire place, baked beans, potato salad, lemonade, coffee and jello with bananas were consumed in huge quantities.

Next on the program were games planned by JEAN TRACY and MARJORIE FRAZEE. ELLEN DOSMANN and ATTEA BRONZETTI were awarded prizes for designing and making the most effective newspaper costumes. Their models were LOIS HOSKINS and RUTH BAKER. When it came to guessing which cakes were suggested by pictures pinned to the contestant, it was GLORIA PICKAVET who walked off with the prize.

Musical chairs, played in the way only Julianna Club members play it, won a prize for Attea.

* * *

EMILE DE VREESE—engineering—took a lot of ribbing the day he came to work wearing a sock of one color on his right foot and an altogether different colored sock on his left foot. He blames his mother for the mistake!

The same day . . . absentmindedness may be contagious . . . but RAY LEUTHOLD, also of engineering—wore his socks wrong side out. Oh well, the girls have been doing it for years and getting away with it.

LIFT UP YOUR VOICE

Approximately 18 months ago a group of AFECO workers, with the help of Dick Ross, and sponsored by the Athletic Association, organized a Glee Club.

Karl Knorr, well known musician, was engaged as director. Frances Koch, who has taught music in Mishawaka schools nearly 20 years, became our accompanist.

The Glee Club, after much necessary practice, had several engagements, including one at the Indiana Club in South Bend and climaxed a, little more than a year ago, by an appearance on the Victory Valley program, over radio station WSBT.

Mr. Knorr has several engagements for the Glee Club within the next five or six weeks, but, before a good showing can be made at these appearances, some sections of the Club need more voices. The biggest need is for women's voices, especially those who can sing alto. Every worker at AFECO is urged to join, regardless of experience. All sections have members who help new singers with unfamiliar music.

The selections are good and varied. For example, here are some of the songs now being rehearsed:

Why Do I Love You, Garden of Tomorrow, Miller's Wooing Song, Little Gray Home In the West, Bells of St. Marys, Smoke Gets In Your Eyes, Donkey Serenade, In the Still of the Night, God Is a Spirit and Deep River.

Sing to have fun. Sing to relax. Sing and forget your troubles. Every Monday night at 7:00 PM in Stanley Krzeszewski's office. Why not come next Monday night and see how you like it?

OFFICIAL COMMENDATION

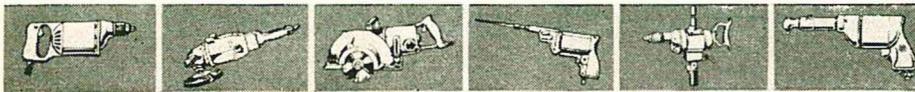
AMERICAN FOUNDRY EQUIPMENT COMPANY
MISHAWAKA, INDIANA

and its employees are hereby officially commended by the United States Treasury for the operation and support of the Payroll Savings Plan. We, the undersigned, recognize that the Government was provided with a substantial part of the money to finance the war through this method of Bond purchasing. The continuance of this savings plan enables workers to gain a large measure of security by their regular purchase of United States Savings Bonds.



Fred J. Vinson
SECRETARY OF THE TREASURY

Leo R. Kramer
NATIONAL DIRECTOR, WAR FINANCE DIVISION



CARE OF HAND TOOLS

A surprisingly large number and variety of operations in practically all manufacturing and assembly processes are performed with portable electric tools. Drilling, grinding, sawing, screwdriving, stud setting, nut running, shearing, and cleaning are some of the many jobs done by these tools in helping modern industrial enterprise keep up the fast pace of production operations.



USE TOOLS PROPERLY— The power and overload capacities of the motors in portable electric tools exceed ordinary requirements, but a tool should never be overloaded continuously.

Always use the proper size tool for the job. Do not employ larger accessories than those called for, no matter what the accessory is.

In drilling, for instance, it is inefficient to use a heavy duty tool on light work. It actually takes longer to cut a 1/4 inch hole with a 1/2 inch drill. Smaller drills are easily broken in heavy duty tools because of the weight and greater torque.

If a drill sticks, binds, or stalls, turn off the current immediately and work the drill free. Never attempt to free the tool while the current is on.



HEATING OF MOTOR A hot motor may burn insulation and windings and cause a short circuit. So don't let the motor overheat.

If it does get hot, stop it and examine it.

Causes of overheating are as follows:

Overloading—from dull tool, too much lubricant, forcing tool beyond capacity.

Bad brushes—broken, chipped, worn too short, stuck in guides, poor spring tension.

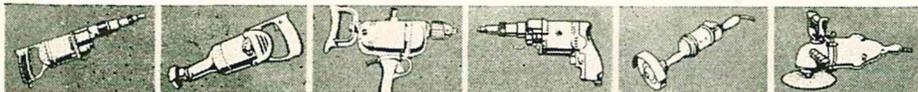
Poor ventilation—clogged air holes, grease in motor housing, dirt in ventilating passages.

High or low voltage—from poor connections, light extension wire, excessive variation.



CABLES—Cable failure is the most common cause for a tool not running. Check connection to switch and plug, also the part of the cable near the tool which is subject to constant bending.

Never pick up, handle, or drag a tool by its cable.



GROUNDING THE TOOL— A portable electric tool should always be "grounded" while in use—so **BE SURE TO** connect the ground wire before starting to work with it. This precaution is especially important when dampness or abrasive dust is present. Any permanent ground is satisfactory.

According to the National Electric Code color designation, the ground wire is the green one, whether the cable is of the three-wire or four-conductor system. In some cases a white wire has been used.



SHORTING—While a "short" may not prevent a tool from operating, it should be detected and corrected. Shorts may occur at various places such as in the plug, the receptacle, the cable, or in the tool itself. For detecting a short, a test socket and lamp affair or any other conventional testing device may be used.

Single phasing of the three-phase High Cycle motors may be caused by a short which makes one phase carry the load. While a tool may run on a single phase, it will do so with greatly reduced power. When single phasing occurs, the tool should be shut off and the trouble corrected before the tool is started again.



SWITCHES—Switches are subject to severe service and to considerable abuse. Reasonable care, therefore, should be shown them. Switches should not be snapped "on" and "off" unnecessarily. When inspecting switches, blow the dust from the terminals.



CHUCKS—Chucks should be handled with reasonable care and not abused. Remove the chuck from the drill spindle only with the proper equipment.

Use a specially fitted wrench or the correct size key for tightening the chuck. Do not apply a pipe wrench, hammer, or chisel.

For chucks without keys, use either the gear locking pin in the gear case, or hold the locking collar behind the chuck. In turning the chuck, follow arrow on the sleeve.

—From **PORTABLE ELECTRIC TOOL MAINTENANCE** published by Mill and Factory magazine.

STEEL DIVISION ENGINEER



PHILIP R. JORDAN will help Gilbert Dill in working with our sales engineers promoting the use of the Wheelabrator in the steel industry.

Before attending Purdue University and earning his mechanical engineering degree, Mr. Jordan was employed in the industrial engineering division of Ball-Band. After graduating from college he was associated with Bethlehem Steel Co., Johnstown, Pa., as a combustion engineer. His work with open hearth mills, blast furnaces and soaking pits gave him a good knowledge of the industry with which he will deal.

For the past 2 1/2 years Lt. (j.g.) Jordan has been a machinery repair officer at the South Boston Naval Dry Docks.

Why is it that everything in life that is pleasant is either illegal, immoral or fattening?



- ENGINEERING**—William R. Griswold*
- STOCKROOM**—Robert J. Brock*, Stanley M. Hes*
- MACHINE SHOP**—Eugene L. Hartman*, Jack W. Ewbank*, Frank S. Mohacsek, Jr.*, Robert E. Agler*
- STEEL SHOP**—Kenneth H. Morgan, Louis Torok, Raymond C. Lytle*, Herbert C. Arnold, Cornelius Nicholas, George F. Kolb, C. Dale Hollingsworth, Dale K. McNeely, Roger W. Mumby.
- OFFICE**—C. A. Soens*, Elizabeth R. Praket, Harriet M. Clawson
- FOUNDRY**—John A. Goss, Guerino Giacomini
- MISCELLANEOUS**—Chalmer R. Cline, executive, James Thomson, sales, Philip R. Jordan, sales, Sherrill S. Deputy, sales, Carl L. Wade, sales.

* Former workers who have been serving in the Armed Forces.

PROTECTION

Realizing that its workers needed adequate health and accident insurance protection, AFECO negotiated with the Aetna Life Insurance Co. and in September 1944, offered a special type of policy to its workers. Approximately 50% of the total premium or cost of this protection is paid by the Company. The insured worker contributes 40c a week which is deducted from his paycheck every week.

A worker may also obtain health and accident insurance coverage for his wife and children between the ages of three months and 18 years. The cost is 25c a week for one dependent and but 35c a week for two or more dependents. The Company pays the rest.

Most of the workers at AFECO are carrying this insurance, and all full-time employees who are actively working are eligible for this protection. New employees are told of this insurance and may make application for it when they are employed. The insurance will be issued for them after they have completed three months of continuous active service.

Group insurance pays you money when you are absent from work because of sickness, if benefits are not payable to you under the Workmen's Compensation Law. Payments start on the eighth day of sickness. After that, you are paid for every week or part of a week you are sick and away from work up through the thirteenth week.

When you have insurance money coming because of sickness or accident, get in touch immediately with Ray Steele, Personnel Director. Should you die the person who is to get the money should do the same.

The sickness and accident benefits are paid weekly and include payments for fractional parts of a week. All other benefits will be paid promptly upon receipt of due proofs. The personnel Department has the forms for submitting proof.

If you have lost your copy of the booklet "Protection For You and Your Family" which fully explains this insurance program, the Personnel Office will give you another one. They will also answer any questions you have about it.

A schedule of the benefits paid is printed below.

EMPLOYEE COVERAGE

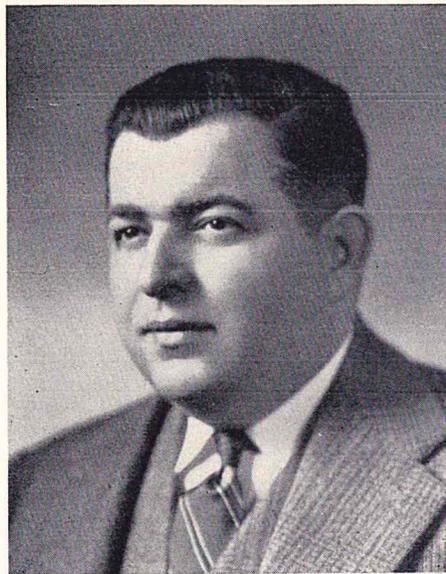
*LIFE INSURANCE	*ACCIDENTAL DEATH AND DISMEMBERMENT	WEEKLY SICKNESS AND ACCIDENT BENEFIT	DAILY HOSPITAL BENEFIT	SPECIAL HOSPITAL FEES	MAXIMUM SURGICAL FEES	EMPLOYEE'S WEEKLY CONTRIBUTION
\$1000	\$1000	\$15.00	\$5.00	\$25.00	\$150.00	40c

*Employees hired after July 1, 1943, age 60 and over when insurance commences, are limited to \$500 Life and Accidental Death and Dismemberment Insurance

DEPENDENT COVERAGE

DAILY HOSPITAL BENEFIT	SPECIAL HOSPITAL FEE	MAXIMUM SURGICAL FEE	EMPLOYEE'S WEEKLY CONTRIBUTION	
			ONE DEPENDENT	TWO OR MORE DEPENDENTS
\$4.00	\$20.00	\$75.00	25c	35c

Your contribution toward the cost of this insurance will be deducted each payday from your paycheck. The entire balance of the cost will be paid by your company. The Insurance Company cannot accept applications for amounts of insurance other than those to which you are entitled in accordance with this schedule.



M. MORRIS, DIRECTOR N.A.S.S.

At the last regular meeting of the Board of Directors of the National Association of Suggestion Systems, Melvin E. Morris, Chairman of the AFECO Suggestion System, was unanimously elected to the Board of Directors of the Association. He will serve in place of E. S. Taylor of the Pullman Company.

Mel assumed the chairmanship of the Suggestion System in 1943 succeeding A. E. Lenhard, advertising and sales promotion manager, who had organized the System a year earlier.

The committee represents both labor and management and is actively engaged in suggestion system work. The position poses many difficult problems in connection with obtaining ideas because AFECO is mainly engaged in the production of special, custom built machinery rather than mass production.

Mel has been associated with AFECO for ten years, most of that time as head of the cost department. When the NASS Regional Conference meets June 11 at the Palmer House in Chicago it will be under Mel's chairmanship.

When It's Going to Happen



IN JUNE

- 3 Labor Union, Local No. 995, UAW-CIO.
Day Shift—5:00 PM.
Night Shift—2:30 PM.
Safety Committee Meeting, Stanley Krzeszewski's Office—3:30 PM.
Glee Club practice—7:00 PM.
- 4 Softball Team vs. Breman Foundry, Merrifield No. 1, 6:30 PM.
- 6 Athletic Association Board Meeting—4:30 PM.
- 10 Credit Union Board Meeting—2:00 PM.
Glee Club practice—7:00 PM.
- 11 Softball Team vs. Chili Bowl, Merrifield No. 3, 6:30 PM.
- 13 Softball Team vs. Belgian-American Central No. 1, 6:30 PM.
- 17 Safety Committee Meeting, Stanley Krzeszewski's Office—3:30 PM.
Glee Club practice—7:00 PM.
- 18 Softball Team vs. V.F.W., Rose No. 1, 6:30 PM.
- 20 Athletic Association Board Meeting—4:30 PM.
- 24 Glee Club practice—7:00 PM.
- 25 Softball Team vs. Ball Band, Merrifield No. 3, 6:30 PM.
- 28 Softball Team vs. Goshen All Star, Lions Field, Goshen, 8:45 PM.

THE SPORTS REVIEW

By Harold Groh

The AA Softball League opened officially April 30. AFECO opposed Ball-Band at Merrifield Park. The score was 6—3, favor Ball-Band.

* * *

A number of AFECO bowlers were entered in the St. Joseph County Council CIO Bowling tournament at Waters Recreation, South Bend. April 13-14 and 20-21. The bowlers included: Bob Dettbrenner, Maurice Roelandts, Willard Flowers, Maurice Poelvoorde, Gene Kempner, Bill Snyder, Sam Snodgrass, Elmer Mast, Frank Burkett, John Van Belleghem, Frank Rendel, Walt Heiser, Vic Miller, Jim Andrews and Mel Fletcher.

"Red" Poelvoorde won first place in the singles with an amazing total of 734; Bill Snyder placed fourth in the singles. Vern Lott bowled in the doubles and singles only.

In the doubles Gene Kempner and Bob Dettbrenner smacked the maples for a 1228 count which was good enough for fourth place.

* * *

The opening of the trout season in Michigan saw Joe Turnock and George DuBois trying their luck on Dowagiatic Creek, Kinze Creek and a few other streams, but without much success. George caught three brook trout.

Andy Federnok and Harold Groh put a boat in Dowagiatic Creek just below Dowagiatic and drifted down almost to Niles. The highly enjoyable trip was rewarded with two Rainbow Trout.

* * *

How about some of your golfers? Do you want some match games? If so, please make it known to some officer of the AA or to Harold Groh.

And girls, what activities are you interested in? Tennis? Golf? Softball? Let us know and we will try and help you.