

AMERICAN Parade

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ION KELLER



AMERICAN PARADE

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Demonstration
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Julia Deak, Steel Shop
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Enoch Feters, Steel Shop
Mildred Fore, Office
Harold Groh, Sports
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Harry Hixenbaugh, Engineering
Paul Kizer, Steel Shop
Robert Mow, Heater
Walter Tava, Steel Shop
Greg Thompson, Machine Shop
Jean Tracy, Research-
Demonstration

The Hue of Sound

Color is very much like music in its appeal. Both are strongly emotional and suggest moods and reactions which are closely akin. Terms used in both arts are freely exchanged. Such words as *harmony*, *tone*, *value*, *hue*, *shade*, *intensity* and the like, convey things familiar both to the musician and the colorist.

Centuries ago such men as Aristotle and Plato spoke of the Music of the Spheres—the seven planets emitting both sound and hue. And when Newton decided upon seven hues as the basis of the spectrum he had such mystical notions in mind. Newton, in fact, related colors to the diatonic scale as follows: C (do) red, D (re) orange, E (mi) yellow, F (fa) green, G (so) blue, A (la) indigo, B (si) violet.

For several centuries men have endeavored to correlate color with music, fashioning various color organs, color-scales, color-scores and the like to express many strange and fascinating relationships.

Musicians are frequently sensitive to color. Christopher Ward wrote, "From the

faintest murmur of pearl-gray, through the flutterings of blue, the oboe note of violet, the cool clear wood-wind of green, the mellow piping of yellow, the bass of brown, the bugle-call of scarlet, the colors are music."

And so it has been with many a composer. Liszt had a number of pet phrases: "More pink here," "That is too black," "I want it all azure." Wagner, in his "fire" music sought to interpret the luminous crackling of flames. He used different hues to mark his scores—red for strings, green for woodwinds, black for bass. Beethoven called B minor the black key. Schubert likened E minor "unto a maiden robed in white with a rose-red bow on her breast." Rimsky-Korsakoff associated C major with cold colors; F sharp with strawberry red. Debussy wrote: "I realize that music is very delicate, and it takes, therefore, the soul of its softest fluttering to catch these violet rays of emotion."

—from "The Color of Music" published by General Printing Ink Corp.

Imagineers

LYNN BOWERS: Redesign pinion shaft seals on the 48 x 48" Wheelabrator Tumbblast so that they can be either right or left hand. This will eliminate confusion in make up, the carrying of an extra part in stock and the part will be interchangeable in the field.

* * *

STANLEY GOLUBSKA: Slot seal plate angles and ends of the Wheelabrator wheel openings on the 27 x 36" Wheelabrator Tumbblast instead of punching them. This change will make for a better fit and easier adjustment.



MACHINE SHOP—Walter J. Ciszczon*

ENGINEERING—Howard Seeley*, Henry Moore*, Robbin A. Wall*, Walter Schamel

MAINTENANCE—Robert N. Gillen

STOCKROOM—James P. Curtis*

OFFICE—George W. Roper

SERVICE ENGINEER—Albert J. Smith

*Former AFECO worker who has been serving in the Armed Forces.

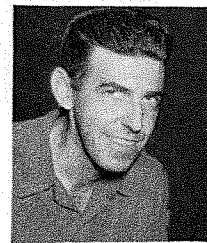
Meet Your Parade Reporter



E. Feters



W. Tava



R. Dettbrenner



M. Fore

ENOCH FETERS attended Ashland College in Ohio, taught Junior High School for several years, worked as a mechanic for the Schultz Baking Co., then came to AFECO in 1941 as a steel shop assembler. Now he builds Sandcutters.

In 1944, Roundy, as he is better known, was president of the Union, (Local No. 995, UAW-CIO). His hobby is photography, an interest that began way back when he had to use sunlight to print his pictures.

* * *

WALTER TAVA, assembler on the Wheelabrator Tumbblast line and crane operator, has worked at AFECO since August 12, 1942. Previous to coming here he had been a truck driver.

Walt fills up his spare time working on his home northeast of Roseland. He started construction of four rooms in 1940, now has six rooms and is still working on it; however, he and his wife have been living in it for sometime.

ROBERT DETTBRENNER, machine shop reporter, is married, has a 3-year old daughter and lives in Bremen. He lists among his hobbies playing center field on a soft ball team, bowling and fishing. The latter sport he has ample opportunity to enjoy because during the summer he lives at Lake-of-the-Woods. He is fixing his summer home so it can be lived in the year around. Bob is also a member of the Union Bargaining Committee.

* * *

MILDRED FORE, office reporter, has been the receptionist and switchboard operator at AFECO for the past 2½ years. Previous to that she did the same work at South Bend Tool and Die Co.

Her hobbies include tennis, swimming and sewing . . . she makes the majority of her clothes. Milly, who has a voice with a smile, is married to former AFECO worker Bill Fore, who is a soldier.

Plan Now—To Die of Old Age



The Safety Committee—From left to right: Wilbur Hays, Walter Myers, Robert Buck, Joseph Velleman, Hazel Kale, Otto Morgan, Sidney Brugh, Willard Flowers, Calvin Kelly and Arthur Murphy.

WORK SAFELY . . . SAFETY . . . SAFETY FIRST . . . and all the other exhortations to be careful don't mean a thing unless everyone understands what safe working conditions are. The Safety Committee at AFECO is working, and successfully too, to make every worker a safe worker. Their campaign is planned around the idea that everyone must be educated as to which practices are dangerous.

Seldom does a worker intentionally do anything that is dangerous. Most accidents are caused because the worker either does not know a practice is unsafe, or he forgets. The task of the Safety Committee, therefore, is to eliminate all unsafe working conditions, to educate workers on safe methods and to keep them constantly alert to the necessity of avoiding dangerous practices.

The Safety Committee which includes: CHIEF WHITMER (chairman), ROBERT BUCK (steel shop, days), WILBUR HAYS (steel shop, days), WALTER MYERS (steel shop, nights), SIDNEY BRUGH (machine shop, nights), OTTO MORGAN (machine shop, days), CALVIN KELLY (foundry), JOSEPH VELLEMAN (shipping) and WILLARD FLOWERS (stock room), meets twice a month with nurse, HAZEL KALE, RAY STEELE (personnel) and STANLEY KRZESZEWSKI (factory manager) to discuss the accidents that have taken place and ways of preventing reoccurrence of the accidents.

All unsafe working conditions either reported to or noticed by the committee members are discussed by the committee and ways of eliminating the danger are planned. The membership of the group, in accord-

ance with both Union and Management's preferences, will be rotated annually so more workers will have an opportunity to serve on this important committee.

At the present time, injuries resulting from handling materials are the most prevalent, especially hand injuries. The safety committee, whose aim is to have every worker PLAN NOW TO DIE OF OLD AGE, is working on a campaign to persuade workers to wear gloves, goggles, safety shoes and other protective clothing where needed, in order to eliminate the opportunities to be hurt.

In the near future it is planned to have meetings right in the shop with all workers. At these meetings sound-slide films, talks by doctors on just what happens when an injury occurs and how best to avoid them, will be featured.

Along with this new safety program, a group of new records are being inaugurated. This "Report of Accident Check Up" form is filled in by the foreman and given to the employee to take with him to the first-aid room when he goes to have an injury treated. The report is kept in the first-aid room, then given to Chief Whitmer who makes an investigation of every accident for the purpose of determining what caused it and how similar ones can be prevented.

AFECO FORM 120 HOSPITAL RECORD	
Name _____	Dept. _____
Address _____	Clock No. _____
Nature of Injury _____	
Admitted _____ 19__	Discharged _____ 19__
Remarks _____	
Attendant _____	

When an injury or illness is treated in the first aid room, the nurse makes up a hospital record card which is kept in her current file until no further treatment is required. If a worker does not come in for treatment, she can notify the foreman to send the worker for attention. From these cards a monthly report on injuries, lost time accidents, etc. is made up. This report is reviewed by the safety committee at its first monthly meeting in order to determine the injuries that are occurring and to formulate plans for eliminating them.

AFECO Form 122 REPORT OF INJURY TO FOREMAN	
To _____	Date _____
Please be advised that—	
Mr. _____	Clock No. _____
Was Injured on _____	The Nature of His Injury is _____
He is to report to the First Aid Station daily at _____ until further notice.	
(SEE BACK FOR ADDITIONAL REMARKS) Nurse _____	

The nurse sends the foreman the "Report of Injury to Foreman" so he will know the extent of the injury and when the worker is to report to the first-aid station for further treatment.

AFECO Form 123 RETURN TO WORK NOTICE	
To _____	Date _____
Please be advised that—	
Mr. _____	Clock No. _____
Is Able To Resume Working _____	194 _____
Nurse _____	

The "Return to Work Notice" is filled out by Miss Kale to be given by the injured or ill worker to his foreman when he is able to resume his job.

REPORT ON ACCIDENT CHECK UP	
Name of Employee _____	Date _____
How accident occurred _____	
<small>By 2000 1000, indicate below (with an X) your answer as to the direct cause of the accident</small> PHYSICAL CAUSES PERSONAL CAUSES <input type="checkbox"/> Poor Housekeeping (obstructed aisles, etc.) <input type="checkbox"/> Dangerous Practices (unsafe habits, etc.) <input type="checkbox"/> Lack of Proper Guards (mechanical or electrical) <input type="checkbox"/> Distraction (lack of thought to job at hand) <input type="checkbox"/> Improper Apparel (sleeves, shoes, loose clothes, etc.) <input type="checkbox"/> Inability (inexperience, poor judgment, etc.) <input type="checkbox"/> Defective Equipment (stair treads, ladders, etc.) <input type="checkbox"/> Incomplete Knowledge of Job at Hand <input type="checkbox"/> Infective Floors, Stairways, Ramps, etc. <input type="checkbox"/> Working Under Stress <input type="checkbox"/> Poor Working Conditions (noise, vibration, etc.) <input type="checkbox"/> Mist (weak, faulty material, faulty method) <input type="checkbox"/> Not Otherwise Classified (specify) <input type="checkbox"/> Not Otherwise Classified (specify)	
Measures I have taken to prevent a similar accident _____	
Signature _____	

AFECO Will Continue Payroll Deductions For Convenience Of Its Employees

QUESTION: Will AFECO continue to deduct money for U. S. Bonds from the paychecks of any worker who desires them to do so?

ANSWER: Yes, unless requested to discontinue bond deductions, the payroll department will continue to take out the same

amount of money (or percentage) from a worker's pay check, and issue bonds in place of this money, as they did during the war.

QUESTION: What kind of bonds will be issued?

ANSWER: Treasury E, F, and G Bonds. These securities, known successively as "Defense" bonds, "War" bonds and "Victory" bonds, will now be called "U. S. Savings Bonds."

QUESTION: Will they be in the same denominations as during the war?

ANSWER: Yes — the most popular ones being the \$25.00, \$50.00 and \$100.00 denominations.

QUESTION: Why are these bonds still being sold?

ANSWER: Government bonds have been available to the public for a great many years. However, they received little publicity before the war and few people knew how to purchase them. Millions of people have bought them for the past four years and wish to continue to purchase them. AFECO will continue to participate in the easy, convenient, payroll deduction plan used for the past several years.

QUESTION: Will there be any change in the cost or maturity value?

ANSWER: None whatever. \$18.75 still buys a bond with a ten year maturity value of \$25.00 . . . \$37.50 for a bond with a ten year maturity value of \$50.00, etc.

QUESTION: Are U. S. Savings bonds safe?

ANSWER: Yes. The safest investment in the world! They are backed by the government of the United States of America.

Secretary of the Treasury, Fred M. Vinson said: "U. S. Savings Bonds will not be frozen. We have a contractual obligation to the holders of these bonds which will be kept. They are backed by the full faith and credit of the United States. They are the best and safest securities in the world."

QUESTION: Is it a good idea to continue to purchase U. S. Savings Bonds?

ANSWER: Yes. Everyone knows how quickly money disappears once the paycheck is cashed . . . just seems to slide through one's fingers. Once the cash is "on hand" one can always find at least several places for it. But, when the payroll department takes the cash out first and lays it aside for you, you know how much easier it is to save. It's automatic saving—systematic saving—it's a habit that pays marvelous dividends. For example see the table below:

SAVE EACH WEEK	AND YOU WILL HAVE		
	IN 1 YEAR	IN 5 YEARS	IN 10 YEARS
\$0.50	\$26.00	\$133.24	\$285.99
1.00	52.00	267.23	574.61
1.50	78.00	401.48	863.98
2.50	130.00	668.97	1,440.84
3.75	195.00	1,004.20	2,163.45
7.50	390.00	2,009.02	4,329.02
12.50	650.00	3,348.95	7,217.20
15.00	780.00	4,018.67	8,660.42
18.75	975.00	5,024.24	10,828.74



dust hurts equipment, too!

Dust, uncontrolled in your plant, is many times more harmful to your equipment and production than it is to the human eye. Why doctor dust-damaged equipment when the cause of the damage can be checked at its source? An American Dustube engineer can quickly show you how to eliminate the costly penalties dust inflicts. He can quickly show how American Dustube Collectors efficiently trap and effect its safe, easy disposal. There is an American Dustube dust collector of a size and type to handle the dust problem that exists in your plant. The last word in improved design, Dustube offers you many advantages through efficient operation, easy installation and inspection. Fewer working parts create a minimum of maintenance.

Improper shakeout is a prime reason for dust collector failure. The diagram "A" demonstrates the efficient Dustube shakeout method. Tubes are limp and deflated, completely subject to the shaking action. Dust is not precipitated on other filters, but is deposited directly into the hopper below. With Dustubes, shakeout periods are shorter and less frequent . . . filter tube wear is decreased.

Figure B. Dustube Collectors filter air at a rate from 270 CFM to 47,000 CFM and more, depending on the dust problem. Proved collection efficiency by weight is 98% or more.



Figure A

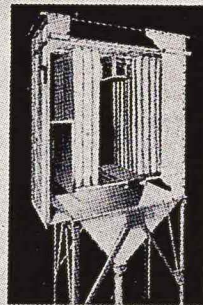


Figure B



AMERICAN
FOUNDRY EQUIPMENT COMPANY
 585 SOUTH BYRRIT STREET • MISHAWAKA, INDIANA

AMERICAN *dustube*
 dust collectors

Another advertisement for American Foundry Equipment Co. Dust Collectors.
 This ad appeared in THE IRON AGE, STEEL, and FOUNDRY.

The BIG Idea!

The big idea—the outstanding suggestion of the year was submitted by electrician FRANK RENDEL. His idea was to substitute a "Square D" type limit switch for the Cutler-Hammer type foot switch previously used on the Type "M" Sandcutter. The new switch, which is being installed on all "M" Sandcutters now being built, is operated by the left foot, as Frank is doing in the picture. Inset shows old method.

Frank's idea, considered by the Suggestion Committee to be the best idea submitted to them since the inauguration of the System, made assembly faster and less expensive. In addition it eliminated several parts, and made operation of the machine easier and more comfortable.

Frank says his idea is the result of looking for an easier way of doing his job. This is the type of idea that the Suggestion Committee is looking for. These ideas help improve the product, make work easier and more profitable. Turn in your idea today.



Year End Awards

The Suggestion System has been in operation at AFECO for three years, during which time a great many workers have submitted their good ideas and have won awards. Each year prizes, in addition to the regular awards are given for:

The best suggestion submitted during the year.

The worker submitting the most accepted ideas.

The worker winning the most money.

The Winners!

This year's winners are:

Frank Rendel	George Tharp
Ralph Banes	
Decatur B. Jaycox	} tied for third place honors

Ten Clubbers

When workers have five ideas accepted, they receive, in addition to the regular award, a prize of \$5.00. Four workers have had ten ideas accepted since the Suggestion Plan was started. They are:

James K. Davidson	Eugene Heighway
Mildred Fore	George Tharp

Five Clubbers

Those workers who have had five ideas accepted since the inception of the Suggestion System are:

Ralph E. Banes	H. Glen Martin
J. Robert Bunch	Otto Morgan
Clyde L. Burris	Marvalynn Powell
Ebal Chayie	Donald Raabe
Robert Dettbrenner	Frank Rendel
Stanley Hes	Kenneth Rohleder
Decatur Jaycox	Odellia Schaut
Denver Johnson	George Simmons
	E. M. Young



George Tharp



Ralph Banes



Decatur Jaycox

"Dad, what is an actor?"

"An Actor? My son, an actor is a man who can walk to the side of a stage, peer into the wings filled with theatrical props, dirt and dust, other actors, stagehands, old clothes, and other claptrap and say: "What a lovely view there is from this window."

* * *

"I guess I've lost another pupil," said the professor as his glass eye rolled down the sink.

Vera Vague: "Your photograph should be made into a jig-saw puzzle so folks could get used to it gradually."

* * *

Charles Laughton: Work is just a money-making racket.

* * *

Housewife: "Why should a big strong man like you be out begging?"

Hobo: "Well, lady, it's the only profession I know in which a gentleman can address a beautiful woman like you without an introduction."

Which Fire Extinguisher?



QUESTION:

"Don't you think educational movies would be desirable here?"

GEORGE FAIRCHILD—Machine Shop—"I think educational films are swell and I'd like to see them. We ought to have more time than over a lunch period to see them."

DON MARTIN—Steel Shop—"I'd like to see movies on correct hook-up for moving steel, such as used in other factories."

EMILE DEVREESE—Engineering—"I suggest movies showing the operation of all machines in the factory. What is the use of them, and if possible, how they are assembled."

CARL RITTER—Research; **WALTER FOX**, **CLYDE BURRIS** and **HAROLD HOLBROOK**—Heater; **JOHN VAN BELLEGHEM**—Steel Shop—"I'd like to see movies on correct methods of welding."

SAM SNODGRASS—Steel Shop—"I don't think much of the idea. Showing the actual work to men in a class would help a person understand the job more readily."

ADELIA CANARECCI—Office—"I think this is an excellent idea. Would be nice to have movies on how our own machines operate. Many of us (girls in particular) have worked here a long time and know very little about the machines themselves." (Ed. note: This idea was voiced by members of all departments.)

ERNEST DICKSON—Steel—"Movies of blue print reading would be of interest to all of us; also use and care of electric handtools used in assembly, as well as the use of new tools that have recently been developed but are not in our shop yet. We don't have much time during lunch period, so I would suggest they be shown between 4:20 PM and 4:40 PM."

WILLIAM BLANK—Engineering—"Movies depicting the functioning of each of the major departments in the plant to cultivate better understanding of the problems each has and the methods each uses to carry out its functions."

WALT HEISER—Machine Shop—"Well a person is never too old to learn and maybe everyone would not be interested in all of the pictures, but if one could get a little out of any one of them, the time is well spent and to good advantage."

HARRY HIXENBAUGH—Engineering—"Think it is a good idea and should obtain a lot of interest from the majority of workers who are really interested in their work and plant functioning."

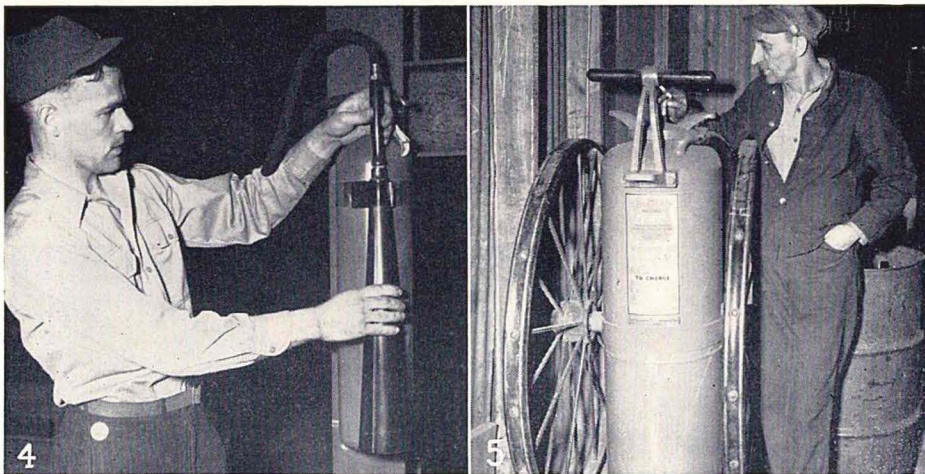
LLOYD FORNER—Demonstration—"Good, they would familiarize the people that work here with the equipment we manufacture, the part it will play in future machinery equipment all over the country, in automobiles and airplanes. Machines in operation, etc."

PEGGY SHIPLEY—Office—"Think a movie on how to place a long distance phone call, equipment used, etc. would be helpful to all."



(1) **REX NEELY** looks at a soda acid fire extinguisher which is operated by turning it upside down. This spills acid into the soda and water solution causing a chemical reaction. Internal pressure forces the mixture through the hose by which it can be directed over the fire. The mixture forms a blanket over the fire cutting off the oxygen, smothering the flame. Do not use on electrical fires as water is a conductor of electricity.

(3) Foamite extinguishers, like the small one **BILL DOTY** is looking at and the big one at which **CHET BYRLEY** (5) is looking, are operated in the same manner as the soda acid extinguishers. Turn them upside down and direct the stream of chemical at the flame. The large Foamite extinguisher is located near the paint shop. The disadvantage of soda acid and foamite is the messy residue it leaves.



(2) Pyrene and carbon tetrachloride extinguishers, such as this one **CARL HOUSAND JR.** is looking at, are operated by turning the handle to the left and working like a pump, directing the stream at the base of the flame. For burning liquid direct stream against the side of the container above the surface of the liquid. These extinguishers are especially good for electrical fires as the chemical is a non-

conductor of electricity and isn't detrimental to motors and machinery.

(4) This newest type fire extinguisher at AFECO at which **ED ERNST** is looking, is a CD Fog, a carbon dioxide gas. To operate pull out the lock pin—open valve, keep erect and discharge at the base of the flames. Carbon dioxide gas is especially good in the control of paint fires.

Strikes come and go, but some slot machines haven't worked for years.

* * *

A chaplain describing his first meal aboard an aircraft carrier, said: "I bowed my head to say a few words of grace, and when I looked up again, a waiter asked me what I wanted for dessert."

Down in Cuba they are in sort of a rut—they raise cane to make rum, and drink rum to raise cain.

* * *

What manufacturer will be first to introduce a cigarette containing all the essential vitamins?

Process Engineering Head

Our new process engineering division is headed by L. D. TYSON. His duties will comprise the formation of engineering processes for all new parts designed, the establishment of new methods and processes for the purpose of more economical operations, and design and tooling for all departments of the plant. All of his extensive experience along processing engineering lines will be utilized to develop faster and easier ways to produce AFECO equipment.

His business experience includes jobs in drafting, machine operation, time study, design and making of all types of tools, production engineering and design, special machine design and plant engineering for such organizations as the Perkins Corp., L. E. Davis Engineering Co., the Studebaker Corp. and the Foster Machine Co.

Mr. Tyson spent approximately 30 years with the Foster Machine Co. where he advanced to the position of chief engineer. This company produced automatic turret lathes and other special machines, such as those for mirror finishing and glass polishing for the automotive industry.



L. D. TYSON

When the Gisholt Machine Co. bought out International-Detrola Corp., (formerly Foster Machine Co.) and moved manufacturing facilities to Madison, Wisconsin, Mr. Tyson became affiliated with AFECO in order to remain in this area.

He is married and has three daughters. Fishing, the type where one fishes for the relaxation it affords rather than for the catch, ranks high on his list of hobbies; as well as the operation of his dairy farm where Guernsey cattle are raised.

He holds membership in the American Society of Tool Engineers, Odd Fellows, the Lutheran Church and is a Thirty-second Degree Mason, belonging to the Scottist Rite and the Knights Templar.

THE SPORTS REVIEW

By Harold Grob

The AFECO Basketball Team has completed their play in the Indiana Independent Athletic Association, finishing in a tie for second place. The position would be good if the team had been organized for some time, but when one remembers the difficulties encountered in organization and arranging for a place to practice and play, the final result is really outstanding.

These good results were obtained because of the hard work on the part of team members and manager John Dorogi. League standing for the season is:

	Won	List
St. Joseph.....	10	0
AFECO.....	6	4
Dodge AA.....	6	4
Ball Band "B".....	6	4
Old Reliable Coal.....	1	9
Schelers Roselanders...	1	9

The team was entered in the IIAA tourney which was played at Kennedy School gym, March 6, 7, 8, 9 and 10. Players include: Forwards: Curly Housand, Carl Housand, Jr., Bernard Byrd and Jack Baugher. Guards: Casimir Truckowski, Charles Kwasny, Dick Trippel and John Dorogi. Centers: Orville Thornberg, Gene Kempner and Charles Bultinck.

* * *

Plans for a Softball team are being held up for the lack of a manager and a place to practice, but these difficulties will be worked out.

New Machine Shop and Production Offices



In order to place the production office in a more central location, this new space has been built in the center of the machine shop. PAUL CAN-DELO has his card stamped by LENA TURNER. The new machine shop office in which day foremen ROBERT MARTIN and WALTER BEATTY are sitting, moved back to share its space with the production office. Now that the machine shop and production offices are side by side, a lot of lost time walking from one to the other is eliminated.

THE FAMILY ALBUM



BERNARD FLEMING

If you look on the seniority list posted in the factory you will find the name heading the list is **BERNARD FLEMING**, steel shop welder.

Bernard, a native of York, Pennsylvania, has a varied working background. His first job was winding silk in a mill that made cloth and ribbon. Following that he worked for American Chain Co. as a helper cleaning scale and burrs from chain after the links were welded.

Just to make it more interesting, he then went to work in a cigar factory as a stock and "strap" boy. The strap is the canvas band that goes around a pack of finished cigars.

A period of farming followed these activities, then he made innersoles in the factory of the Hanover Shoe Co. until the army draft for World War I came along. Bernard took a short vacation before he was to report to the Army—the Armistice was signed before that holiday was up, so he was not inducted.

Back to another silk mill where he twisted thread, then to the Buch Foundry Equipment Co. making steel pouring jackets. Interspersed among these jobs were several

others, more farming, construction, and cement work to name a few.

June 1, 1926 Bernard reported to AFECO and worked for **HARRY SMITH** building Dust Collectors. Since that time he says he has done about every job here except electrical.

When the first welding machines were purchased in 1927 the company that sold AFECO the machines sent a representative who, in two days, taught Bernard how to weld. Since then, of course, he has learned much more about welding. When the radiographs were purchased a few years later, Bernard operated one of them for a while, but later returned to welding.

He and his wife live on a small farm south of Mishawaka, where he raises garden produce for his own use. While he enjoys hunting and fishing, the thing that interests him most, is raising roses and gladiolias. He plants his bulbs in mixed rows and eagerly awaits the results of cross polination. No, he isn't a "hands off" grower, for he says his wife keeps four or five bouquets of these flowers in the house all during the blooming season.

In 1944 he was elected financial secretary of the Union, and again in 1945. So good a job has he done, that his name was submitted again for re-election in 1946.

★ ★ ★

Welcome Home!

- | | |
|-------------------|------------------------|
| Robert Barkdull | William R. Griswold |
| Delbert Dare, Jr. | Edward J. Huemmer |
| Walter Ciszczon | Frank S. Mohacsek, Jr. |
| Ward Correll | Marvin E. Rapp |
| James P. Curtis | Howard L. Seeley |
| Willaim F. Eggert | Richard L. Squires |
| | Robbin A. Wall |

★ ★ ★

Help! Help!

AFECO Servicemen, past and present, have you returned the questionnaire mailed to you, telling **PARADE** where you have been and what decorations you have received? If you haven't, will you please do so now?

About 150 of these have been returned and we are waiting to receive the other 60 forms that are needed before the story on where "our boys" have been and what they did can be written.

Some of you men seem to be reluctant to return the questionnaire—but we hope that all our servicemen—those who have seen a lot of action, those who are still in basic training and all those in between—will send the questionnaires back at once.

Will you help us out boys? We don't know the answers and you do.

★ ★ ★

In March the Servicemen's Gift Committee is buying \$25.00 U. S. Saving's Bonds for: Pfc. **RAYMOND DESMET** and **ROBERT M. AGLER, MM2/C.** (Note: We do not have an address for Bob Agler, if anyone knows it, will they drop us a note or call extension 38, please.)

S
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HOW
to do it

Files chip easily under shock, endangering eyes. Never use as a hammer.

Always use a file as a hand tool. File the work—don't work the file.

Splintered or off-size handles add nothing to efficiency and safety.

Unprotected tang of file will puncture wrist. Use proper handle on files.

File left-handed when smoothing work on lathe—chuck may injure arm.

Operating Reports of AFECO Equipment

When one of our service engineers installs a piece of AFECO equipment, is called to a customer's plant to make a repair or adjustment, or stops there for a routine check up, he sends to the Mishawaka office a report of his work. Here are a few such reports taken at random from our files.

Daily Report of Serviceman on Field Work

ROUTE TO	
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Date December 10, 1945
 Serviceman Claude Holland
 Hotel Cleveland City Spartanburg, S. C.
 Equipment 48 x 48" WATB Serial No. _____
 Date Covered December 6 and 7, 1945
 Customer Continental Gin Co. Plant _____

Work Performed _____
 Include performance data when this is obtainable ◀

Thursday we cleaned the entire day's production. An average load was about 1400 lbs. of mixed castings cleaning time ranging from 5 to 8 minutes. The 48 x 48" wheelabrator Tumbblast is going to upset the customer's cleaning problem to an extent that it will take them several days to organize, since the wheelabrator will clean the entire daily production in about two hours, whereas before, it took them nine hours to clean their castings using eight tumbling barrels.

Daily Report of Serviceman on Field Work

ROUTE TO	
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Date November 10, 1945
 Serviceman E. K. Kremer
 Hotel _____ City _____
 Equipment No. 1 W/A Table Serial No. _____
 Date Covered _____
 Customer Austenal Laboratories, Inc. Plant _____ City New York City

Work Performed _____
 Include performance data when this is obtainable ◀

This No. 1 Table was charged with a mixture of #60 and #90 grit cleaning and finishing the blades that are used in turbines for the jet planes. Removal of sand in their Pangborn air blast barrels required 1 1/2 to 2 hours for 50 to 85 pieces and they were no where near the ones being cleaned on this table at the rate of 3 a minute (180 an hour). They are highly pleased with this machine, and say that it is as near perfect for their job as anything could be, in fact they think so much of this equipment that they pass the good word along to their friends.

Daily Report of Serviceman on Field Work

ROUTE TO	
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Date September 17, 1945
 Serviceman William Sutherland
 Hotel _____ City _____
 Equipment 36 x 42" WATB Serial No. A 58461
 Date Covered September 11, 12, 13, 17, 1945
 Customer Hempenstall Company Plant Forge City Bridgport, Conn.

Work Performed _____
 Include performance data when this is obtainable ◀

Due to a break down at another plant they just tied into the dust system so that we could get out some production on some rush orders for inner and outer bearing races. These bearings were for SKF and Hyatt Bearings. We charged the machine with #22 wheelabrator shot and cleaned bearing races that ran from 5 to 117 lbs. each in the rough forging. First load was 200 pieces of small 12 lb. inner races (2400 lbs. total weight), and they were cleaned in 8 minutes. The scale was really burned on them, too. These races would have required nearly 4 1/2 hours by hand in the sand blast room and the operator claims that they were not half as good as the wheelabrator Tumbblast did in 8 minutes. The total days cleaning would have required 2 shifts, 8 hours each, 2 days to get out forgings we cleaned in about 5 hours actual running time. The machine shop foreman was all smiles and said that he could really enjoy his fall vacation this year and clear mind about cutting tool life on his machines.

Date December 24, 1945

Serviceman Fred H. Smith
 Hotel _____ City _____
 Equipment #45 Assembled Dust Collector Serial No. A 60805
20 x 27" WATB Serial No. A 60804
 Date Covered December 17, 1945
 Customer Arnold Schwinn Co. Plant _____ City Chicago

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Work Performed _____
 Include performance data when this is obtainable ◀

Checked over installation. Foundry they were well satisfied. Cleaning bearing parts, bushings, etc. They are cleaning a lot of bicycle tubing parts by buffing. I showed them how to clean these parts in the Tumbblast.

Daily Report of Serviceman on Field Work

ROUTE TO	
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Date December 4, 1945
 Serviceman J. LeMaitre
 Hotel _____ City Ware, Massachusetts
 Equipment 20 x 27" WATB Serial No. A 58822
 Date Covered December 3 and 4, 1945
 Customer Clayton Mfg. Co. Plant Forge City Bristol, Conn.

Work Performed _____
 Include performance data when this is obtainable ◀

Got this job going today, cleaned their forged shears with flash on in 15 minutes with #25 shot, added 100 lbs. of National #45 grit which looks similar to our #60 and cut the time down to 12 minutes, cleaned their heat treated work in 7 minutes per load. The only trouble we had was with 3 1/2" embroidery shears, we had a load of about 1400 pieces, and 65 pieces carried over the belt due to the points sticking in the holes. Some of the barber shears did the same thing but not too many of them. They were surprised that we did not damage the points on any of the jobs we cleaned.

Daily Report of Serviceman on Field Work

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Date August 10, 1945
 Serviceman E. L. Kremer
 Hotel _____ City _____
 Equipment 20 x 27" WATB Serial No. A 57670
 Date Covered August 8, 1945
 Customer Quaker City Foundry Plant _____ City Philadelphia

Work Performed _____
 Include performance data when this is obtainable ◀

While I was here they were cleaning aluminum gear cases for radar equipment, they were cleaning 20 cases to the load in 2 minutes. Before they had the machine it took 6 minutes to clean one in a suction blast cabinet.

Daily Report of Serviceman on Field Work

ROUTE TO	
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Date December 22, 1945
 Serviceman William Sutherland
 Hotel _____ City _____
 Equipment 27 x 36" WATB, D/C Serial No. A 60302-03
 Date Covered December 11 and 12, 1945
 Customer Ramsey Chain Company Plant Foundry City Albany, N. Y.

Work Performed _____
 Include performance data when this is obtainable ◀

Charged the wheelabrator Tumbblast with a mixture of #25 and #22 shot. After making a few adjustments and running a number of loads of miscellaneous castings that varied in weight from 1/4 to 180 lbs. Most of the castings produced at the above plant are for the Saco Lowell Plant, Biddeford, Maine. Up until the starting of the above equipment, this company shipped castings to the Saco Plant that were half cleaned in rolling barrels. As a result they were not half cleaned and so they were charged back with a high percentage of scrap. This condition will stop now as Mr. A. Hopson, Supt. termed it as the molders can see what kind of work they are putting out in their molds. I told them that their sand condition was bad because it was cut by hand and that it was so cold in the foundry at night that the sand piles were crusted over in the morning (frozen 1/2" on all the piles). The above outfit is very pleased with the equipment and also the fact that it helps their dust condition in their plenty dirty cleaning room. Castings that had been rolled in the barrel were cleaned in from 3 to 5 minutes per load. Some of the fellows said they looked more like...

EYE to the KEY HOLE

OMER BOEMBEKE (Steel Shop) was married February 2 to Gertrude Ruskouski. After the large reception, the couple spent a honeymoon in Detroit. Omer had a lot of good and bad advice from fellow workers, but it mostly comes down to this: by BERNARD BYRD:

"Some say we should congratulate you. Others say we should have warned you. But from most of us we wish you and your bride sincere happiness."

* * *

BILL SIMS is back in the steel shop after a leave of absence to rest.

* * *

Just a few more winners at Bingo and GEORGE GRODRAIN will own the Armo Theatre. He has six winners to his credit.

* * *

The stork delivered a nine pound, three ounce boy February 19 to Mr. and Mrs. ED NELSON, he is of the shipping department.

* * *

IRVIN KARR (research) is the proud father of a third son, John Charles, born January 29. The stork bowed again at the home of CURLEY HOUSAND (demonstration) on February 13. It was a girl, Margorie Lee, their second. Wonder if Irvin and Curley might like to trade?

* * *

ART TERMONT (blacksmith shop) had a cow for sale. BILL RAPP (steel shop) offered him \$110 for her and Art accepted. Bill hauled Bossy away and resold her for \$135.

★ ★ ★



Whatever you are cooking smells awfully good. May we have the recipe.

That supersalesman in the machine shop is CARL PETERSON. He sells Kirby vacuum cleaners in his spare time. He promises to make delivery in from three to four weeks.

* * *

What does WALT OSTROWSKI (foundry) have that the rest of us don't... a new 1946 Chevrolet... which is nice work and he got it.

* * *

Bells rang February 23 for the wedding in the Christian Church of Mishawaka of FRED BISHOP (foundry) and Evelyn McNeely.

* * *

It finally happened! With all of these new cement floors being poured it is surprising it didn't happen sooner. A customer, who came to witness a demonstration, didn't know the floor was still soft, boldly padded across it. His bravery is marked in the cement forever.

* * *

The newspaper recently carried the announcement of the engagement of Mary Grace Chartier and DICK MECKLENBURG of engineering.

* * *

Another pot luck lunch was held by the women in the factory. It took place February 28 and honored ARVILLA HUMMELL (shipping) who is quitting work. Arvilla who has been a PARADE reporter for some time, and the person behind such things as the birthday cakes in the shipping department, will be missed by her fellow workers.

* * *

The skating party sponsored by the Julianna Club February 21 was a huge success. Sparkled by ticket sales of ANNA MAE EHRMIN, the party drew a large group of AFECO workers, many of whom had not been on wheels for a coon's age, but who enjoyed the party nevertheless. Other members of the committee were: MARILYN SPRAGUE, (engineering) ZOLA LECHLITNER and VIRGINIA SHEETZ (office), DORIS JENKINS (heater) and MARY CHAMBERLIN (office).

* * *

BOB GIBBENS (receiving) bowled anchor man on the Mishawaka tournament winning Eagles team.

* * *

BOB MARTIN (machine shop) bowled 685 in three games recently. Who wants to roll against him even if Bob does say that was bowling over his head?

* * *

RAY LEUTHOLD, who has worked in the receiving department for the past six years, was transferred to engineering the first of this year. Ray, a graduate of Chicago Technical High School, is working on the engineering of dust and fume control equipment.

VERN VALENTINE of the Research department was joined in holy matrimony nine years ago Valentine's Day. The news of his marriage was published in papers all over the country following interviews with the "South Bend Tribune."

* * *

GIBBY SAMUEL BAER, weighed in 30 minutes after Valentine's Day, at 10 lbs. He is the son of Mr. and Mrs. Gilbert Baer, steel shop layout.

* * *

The new dispensers of dairy products are proving to be very popular with AFECO workers. Not all were quite as generous with their patronage as these two steel shoppers, however. CECIL RICE drank 16 bottles of orange one day and KENNY BIDLACK drank 20.

* * *

Another in the series of parties for ARVILLA HUMMELL who recently quit working in the shipping department, was a breakfast attended by Eva Copp, Julia Deak, Alba Ciavatta and Jerry Fuller.

* * *

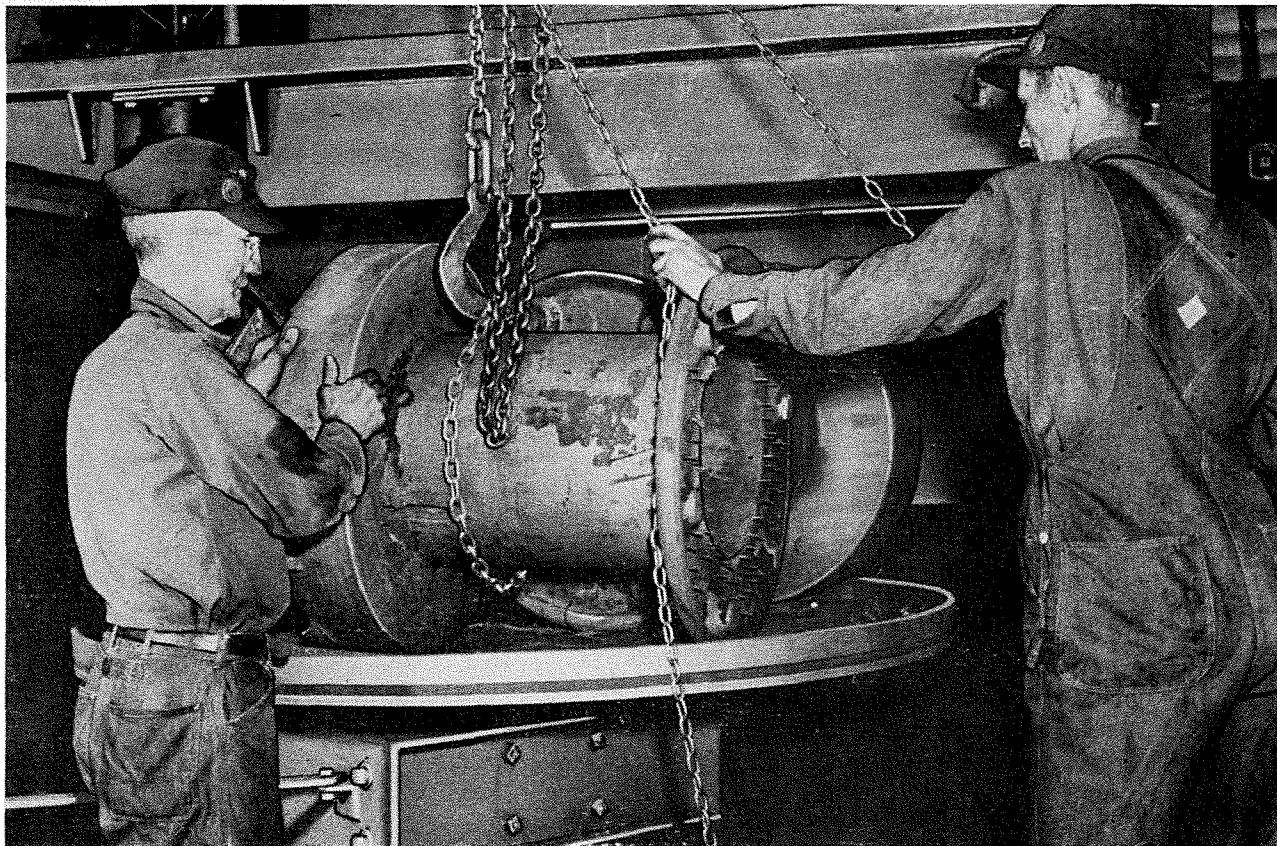
When It's Going to Happen



IN APRIL

- 1 Local No. 995—UAW-CIO meeting
Day Shift—5:00 PM.
Night Shift—2:30 PM.
- 2 Glee Club practice—7:00 PM.
Bowling Teams No. 1 and 2—9:00 PM, Rose Recreation.
Bowling Team—6:30 PM, Bowlmore Alleys.
- 4 Bowling Team—9:00 PM, Pastime Alleys.
Athletic Assn. Board meeting—4:30 PM.
Girls Bowling Team—8:30 PM, Rose Recreation.
- 8 Credit Union board meeting—2:00 PM.
Safety Committee Meeting, Stanley Krzeszewski's Office—3:30 PM.
- 9 Glee Club practice—7:00 PM.
Bowling Teams No. 1 and 2—9:00 PM, Rose Recreation.
Bowling Team—6:30 PM, Bowlmore Alleys.
- 11 Bowling Team—9:00 PM, Pastime Alleys.
Girls Bowling Team—8:30 PM, Rose Recreation.
- 16 Glee Club practice—7:00 PM.
Bowling Teams No. 1 and 2—9:00 PM, Rose Recreation.
Bowling Team—6:30 PM, Bowlmore Alleys.
- 18 Bowling Team—9:00 PM, Pastime Alleys.
Athletic Assn. Board meeting—4:30 PM.
Girls Bowling Team—8:30 PM, Rose Recreation.
- 22 Safety Committee Meeting, Stanley Krzeszewski's Office—3:30 PM.
- 23 Glee Club practice—7:00 PM.
Bowling Teams No. 1 and 2—9:00 PM, Rose Recreation.
Bowling Team—6:30 PM, Bowlmore Alleys.
- 25 Bowling Team—9:00 PM, Pastime Alleys.
Girls Bowling Team—8:30 PM, Rose Recreation.
- 30 Glee Club practice—7:00 PM.
Bowling Teams No. 1 and 2—9:00 PM, Rose Recreation.
Bowling Team—6:30 PM, Bowlmore Alleys.

Wheelabrating Makes Mining Safer



The first commercial copper mining venture in America was organized in Connecticut in 1709, but it failed through lack of pumps and machinery and the workings were later used as a prison. Subsequently, copper mines were operated in New Brunswick, N. J.

The early colonists found the Indians wearing copper ornaments, but it is not known if they actually operated any mines. The first iron ore in America was found on Roanoke Island by prospectors looking for gold. The settlement at Jamestown, Va., was organized largely to work the iron.

As for coal, the first mention of it was by Father Hennepin of the exploring Jesuits, who reported that the Indians were digging coal along the Illinois river in 1679. Anthracite was first dug around Pottsville, Pa., and a man in 1812 narrowly escaped arrest for selling anthracite as coal when it was only "non-combustible stones."

MINING HAS AN ELEMENT OF DANGER

Mining, especially of coal, has always contained an element of danger. There were fires and explosions from "fire damp", and asphyxiation from "black damp." There were also dangers from cave-ins, from mechanical failures, and from hoisting cable breakage. However, with the mechanization of mining, mechanical failures are few, and science has coped successfully with other hazards including those due to the human element.

Metal and coal mining that is not accomplished by the "strip" method, is by shaft, drift or slope methods. The shaft is a vertical pit (as deep as 1500' in some anthracite mines) through which the coal or ore is hoisted in skips. The drift is a horizontal, or nearly so, opening in the side of a mountain. The slope is a shaft extending at an angle of 35° to 40° from the surface to the veins below.

PIONEER EQUIPMENT MANUFACTURER

A company that has pioneered in the design and manufacture of safe hoisting equipment for shaft mines is the Ottumwa Iron Works, established in Ottumwa, Iowa, in 1867. This company makes a line of electric-power hoists from standard friction drum hoists to large hoists with oil-power brakes with motors as large as 1300 HP.

Ottumwa mine hoists are completely equipped with safety devices, so that the element of danger is reduced to as low a point as human ingenuity can make it. In the manufacture of the hoists, every part is subject to rigid inspection, and it is one of the advantages of the Wheelabrator Swing Table machine that the surfaces of the gray iron castings are cleaned so perfectly that defects are immediately discernable.

In addition to electric hoists, Ottumwa makes steam drum winches for installation on Liberty ships.

The Wheelabrator Swing Table at Ottumwa Iron Works, with a 66" diameter work table, cleans large hoist drums and smaller parts such as mine car wheels, gear housings, and machine brackets. Castings up to 800 pounds are handled in the machine. Loading of the table is facilitated by the use of a chain hoist.

Cleaning time is reduced to 4 minutes per table load, which represents a saving of 25% in cleaning cost over the previous method. The Wheelabrator replaced a large tumbling barrel which was operated 24 hours a day and eliminated considerable hand cleaning of castings. In addition to the cost saving and better appearance for inspection, there is a saving in machinability according to Mr. D. J. Neasham, Vice President, due to removal of all sand and scale right down to the virgin metal.



Repairing



Want something repaired? Who doesn't? But finding someone who knows how and will do the job is difficult. But, if you want something repaired; the toaster, the iron, the children's skates, the lawnmower sharpened, or just about anything else, call on LEWIS MATCHETTE of the steel shop.

It all started with a baby—the baby needed a bed, and Louis thought he surely could build as good a one as he could buy, and cheaper too. He did. Then his sons—five of them—as boys will do, broke their toys and brought them to dad to be repaired. He did. And, as boys do, they bragged to their friends that dad "fixed it," so the neighbors children brought their bicycles, wagons, skates, sleds, etc. to be repaired.

Mrs. Matchette wanted things about the house built, repaired or changed, so the hobby grew until now he has a drill press, cutoff saw, rip saw, metal lathe, jig saw, planer and other assorted machinery.

All that equipment, his skill acquired through years of pleasurable work, and a desire to do something new led, during the war, into the building of frozen food cabinets on contract for the Twin City Equipment Co. It takes Louie from eight to ten hours to build one of these cabinets, which are made in 16, 18 and 21 cu. foot capacities.

Louis worked for the Ball-Band for 23 years repairing sewing machines and other machinery previous to coming to AFECO 15 months ago to build abrasive elevators.

Buzz-Buzz

This is an explanation as to why the switchboard operator, after announcing an outside call, or being requested to transfer a call from one line to another says: "Please hang up, I'll call you back."

If the party called from the switchboard or calling to the switchboard from inside our plant, does not hang up while the connection is changed, the dial tone will be present during the entire conversation.

★ ★ ★

Easy Terms

The bewitching days of "installment purchasing" and "easy terms" will soon be confronting you as consumers. Installment payments are expensive, even though costs are often hidden.

When purchasing that new car, refrigerator, radio, washing machine or furniture be sure to find out the cash price as well as the financing cost, then compare with the cost of a loan from the AFECO Credit Union.

An AFECO Credit Union loan only costs 1% per month on the *unpaid* balance.

The Growth of an Organization

It is apparent to anyone who has worked at AFECO for a year or more that the Company is growing and expanding; new additions and improvements are constantly being added. To gain a better idea of how much AFECO has grown in the twenty years it has been located in Mishawaka, compare this drawing (right) of the plant made in 1926 to this new birds-eye view (below) just completed.

