



THE **CINTILLATOR**  
*July - 1944*



# HOW'S BUSINESS?

The purpose of this article is to provide our employees with a general picture of business conditions, particularly as they affect continued employment in our plant.

Many of our employees have witnessed the tremendous growth of our manufacturing capacity since 1939. Our payroll in Sidney increased more than 1,000%, and in addition our subcontracting program contributed a very substantial quantity of aircraft and other ignition products required by the various Armed Services.

American Industry has accomplished an "impossible task" in meeting and solving the complex problem of conversion and expansion in order to provide the necessary war materials which ultimately will bring peace. Scintilla products will be found in Allied aircraft, tanks, landing barges, PT boats, etc., in all corners of the globe, furnishing dependable ignition that helps to carry our boys across deserts, mountains, great expanses of water, and back again to their bases. It was only the loyal cooperation, earnest effort, and sincere understanding of our entire working force that made it possible for Scintilla to accept and discharge with honor our responsibility in this enormous war program. The Army-Navy "E" Flag which we proudly fly is an official recognition that our job has been well done.

In recent months, the changes that accompany a World War have been reflected in practically all industrial plants, the majority of which have had more cancellations and schedule cutbacks than we have encountered. Changes in the war program which have directly affected our schedules were connected with substantially reduced requirements for training planes and tanks. In addition, the actual losses in combat were considerably less than was anticipated, and some adjustments in requirements, particularly in spares, have resulted. This eliminated or reduced the need for certain types of magnetos and other products. However, these reductions were partially offset by requirements for increased quantities of ignition products for aircraft of heavier types.

All war program reductions have not only affected Sidney operations but to an even greater degree have materially reduced the programs of our subcontractors, with the exception of subcontracted harnesses. The Scintilla type of cast-filled harness has been recognized as the best in the field and its use has been constantly increasing in connection with the various aircraft engine installations. All of these factors result in constant changes in our manufacturing plans. For instance, the schedule increases on harnesses make it necessary and desirable to relieve our harness subcontractor of all coil-winding activities for Scintilla, which will result in additional coil-winding in Sidney.

A recent review of firm business on hand indicates that there will be steady operations in Sidney for several months to come. There will be minor adjustments and necessary shifts from one type of work to another from time to time but, subject to future unknown major changes in the war program, it would appear that we will continue to operate at current levels for an indefinite period of time.

War is such a fluid thing that the picture may be radically changed before this message reaches you, but we wished to present to you the latest known facts at this writing.

Your continued cooperation in helping us to make adjustments as they become necessary in the future will be appreciated, and you are assured that all changes are and will be planned to involve as little an amount of inconvenience to the employees and disruption of the work at Scintilla as conditions will permit.

H. HANNI  
General Manager



EDDIE NOONAN, AMM 2/C, formerly of Department 58, sends us this photo of himself and his brother John. Eddie is the one on the left. Photo was taken when the boys accidentally met in line of duty. Eddie is now stationed in the New Hebrides Islands.

## 5TH WAR LOAN GOES OVER THE TOP

Everyone concerned is justifiably proud of the record rolled up by Scintilla employees in the 5th War Loan. In view of the decrease in number of employees, no one felt too optimistic when an employee goal of \$165,000 (maturity value) was announced. Even at the beginning of the final week of the drive, no one seemed willing to risk any money on bets that we would go over the top.

But, like baseball, where the game is never over until that last man is out . . . our ninth inning rally assumed steam-roller proportions, carrying us beyond our objective. The result: a final score of \$187,475 (maturity value) for the drive!

In accordance with our original plan, a letter has been sent to each of our fellow workers now in the armed forces advising that their buddies on the production lines at home have backed them up again through Bond purchases.

In order to give each Scintilla department a target to shoot at in the drive, quotas were established and assigned to departments. The following departments, totaling thirty-nine, either met or exceeded their quota: 2, 4, 5, 7, 8, 11, 12, 13, 22, 23, 27, 29, 33, 34, 35, 36, 37, 42, 47, 52, 63, 66, 71, 75, 76, 77, 80, 81, 82, 84, 86, 87, 88, 90, 91, 93, 95, 96, 98.

By going over the top in this War Bond drive we have maintained a 1000 batting average for the series to date . . . over the top in every drive.

No one knows how long the war will last. No one knows how many more Bond drives there will be. But we do know this: Scintilla workers will be in there pitching at the finish!





T. Z. FAGAN  
Sales Manager

★ ★ ★ ★ ★ ★ ★ ★

★ PRESENTING SCINTILLA ★

★ SUPERVISION ★

★ Sales and Service ★



L. W. TREES  
Service Manager



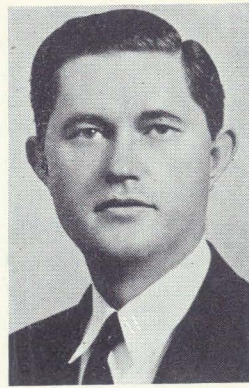
B. L. McGREGOR  
Supervisor  
Contract Section



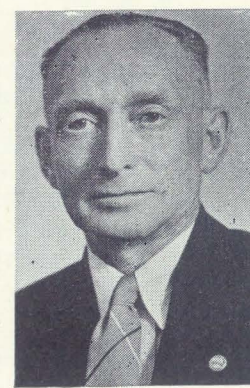
F. H. COPPESS  
Supervisor, Order and  
Billing Section



F. L. DARLIN  
Supervisor  
Statistical Section



C. A. FLAGG  
Assistant  
Service Manager



R. GRAHAM  
Supervisor  
Service Department

## Greetings From Boeing

Under date of June 28th, a letter from the Boeing Airplane Company, Wichita, Kansas, points out the fact that Scintilla had a part in the recent raid on Japan by B-29 Superfortresses. We think you will enjoy reading a part of this letter.

"When the electrifying news was broadcast that Boeing B-29 Superfortresses had bombed Japan, we at Boeing were filled with pride. The announcement over the plant's public address system was greeted with stunned silence, then applause broke loose. It was a thrill none of us will ever forget.

"All of us felt that we had a part in that raid. You and the men and women of your company were in it, too, for the splendid help and cooperation you have offered has played an important part in our B-29 production. You may well be proud of your part, and we sincerely appreciate what you have done.

"Soon, pictures of the B-29 will be available for distribution. We will see that you receive yours as soon as possible. We're mighty proud of our new product and we want you to be too. After all, you are helping us build it."

*Editor's Note: Scintilla switches and magnetos were used on these B-29's.*

## J. W. Schroh Married

Saturday, June 24, Jacob W. Schroh, Chief Inspector at Scintilla, was married in Poughkeepsie at the home of his bride, Wilma B. Vandervoor. Mr. and Mrs. Schroh now reside in Sidney.

## Boss Engineer Keeps 3,000 On Toes

*This is the concluding section of the biography on Bendix's Charles Marcus.*

## How Research Saves Money

Bendix engineers have plenty to keep them busy. C. M.'s motto for engineering is "Try anything."

To do this costs money. In the last report to stockholders expenditure for research and engineering was put at \$11 million.

It also saves money. Design simplification and adoption of methods and materials fostered by cost-conscious engineering directors, along with reduced profit margins, enabled the corporation to reduce prices voluntarily by \$123 million in 1942, and to agree to refund an additional \$65 million in renegotiation of its war contracts.

C. M. never lets organizational structure stand in the way of progress. This, and the fact that he's a master hand at cutting red tape, has given him the reputation of disliking rules and regulations. There's some truth in it. Yet he's too able an administrator to ride roughshod over lines of responsibility. In matters of policy his motto is, "When in doubt, don't."

### Some Cussing, No Scrapping

Although C. M. makes talking a practice in every department of life he has never gone in for public speaking. On the few occasions when he could not escape, he discarded his written speech and did a bang-up job. He talks with people because he genuinely likes them and thinks of life

as a summation of human relationships. Long before Brass Hats were advised to be more democratic and to regard subordinates as human beings, he was doing just that as an every day matter. No wonder subordinates swear by him.

They also cuss him quite fearlessly and he cusses back, but there's no scrap. His men know where they stand with him and delight in contrasting past relationships with this one. They say he's a hard taskmaster but generous—a man who doesn't pull his punches when bawling a man out, who gives full credit where credit is due.

### Why His Neck Is Out

Subordinates say it's impossible to fight with C. M.; he won't permit it. Challenged with this no-fight idea he explains, "If you have to bark, bark up, not down. If your job gives you the right to bark down it's all the more reason for not doing so."

Actually, his neck is out all the time. He thinks a business man who doesn't stick his neck out isn't doing anything.

Marcus was born in Chicago in 1886, but was brought to New Jersey at an early age. He received his primary education at the Jersey City High School and Stevens School, a prep for Stevens Institute. But he didn't go to the Institute; he was graduated from Columbia with A.B. and M.E. degrees. He had made a specialty of thermal engineering; but went straight into electrical engineering.

(continued on page 9)



# PRESENTING... SCINTILLA'S SUB-CONTRACTORS

## Behr-Manning Corporation TROY, N. Y.

### About Behr-Manning

Beginning with this issue, we present the first of a series of articles designed to make you better acquainted with some of our sub-contractors. In the lead-off position for the series is Behr-Manning, of Troy, New York. From time to time we shall introduce others on our list of sub-contractors.

We acknowledge with thanks the following Behr-Manning biography which was prepared by members of the Behr-Manning organization.

#### The Editor

Behr-Manning, a division of Norton Company, Worcester, Mass., are manufacturers of Coated Abrasives—"Sandpapers"—of all kinds, going back to 1872 when Herman Behr, a young man not yet thirty, made his first "better" sandpapers in a small loft over a baker's shop in New York City.

Through all the ensuing years, Herman Behr & Co., Inc. were pioneers in higher and still higher quality products, aiming always to satisfy that most interested critic, the final user.

Among many of their innovations were the introduction in the late '70s of garnet as a wood-working abrasive superior to any then in use, and in 1918, the Openkote

method of applying less mineral to the surfaces of paper or cloth, with immensely increased efficiency and pliability in the finished product.

In 1912, Manning Abrasive Co. started in a small way to make coated abrasives on part of the present site in Watervliet. John A. Manning, a successful manufacturer of Rope Paper, was another restless spirit who believed that it was always possible to make better materials than those in daily use.

Employing the knowledge gained in paper manufacture, Manning Abrasive Company, through technical cooperation, pioneered stronger paper backings than had ever been used before and so raised the standard that today's papers are from 50 to 75% stronger than those in use in the first decade of the present century.

"Behr" and "Manning" were names held in the highest esteem among users of Coated Abrasives. Both persistently pursued improved methods and products; both had enviable reputations for business ethics; both were forward-looking leaders in their industry. Nothing was more natural, therefore, than that in 1928 they consolidated as Behr-Manning Corporation, the "world's largest sandpaper manufacturer."

(continued on page 5)



FRANCIS E. GALLAGHER, President and General Manager.



ELMER C. SCHACHT, Vice President and Works Manager.



JOHN O. AMSTUTZ, Chief Engineer.

**"BEHR-MANNING"... WORLD'S LARGEST SANDPAPER MANUFACTURER**



## Behr-Manning (from page 4)

In the years following the merger, the Company's reputation for outstanding quality of product has been continuously enhanced through greater technological control of raw materials purchased, engineering skill in manufacture, and scientific scrutiny of finished material—all under the able guidance of Francis E. Gallagher, for years the General Manager and since 1938, the President as well.

Another outstanding contribution to the general improvement in cutting and lasting power of Coated Abrasives was Behr-Manning's invention and development of electro coating. A powerful electrostatic field up-ends the cutting crystals and evenly disperses them in the glued surface, thus producing a faster rate of cut, greater output, and better finish.

In 1931, Behr-Manning became a Division of Norton Company, the largest producers of artificial abrasives, grinding wheels, oilstones and other abrasive specialties, making the latter company a fully integrated abrasive manufacturer

from the raw materials to the finished wheel, paper or cloth or oilstone.

How, then, you will ask, did the leading sandpaper manufacturer become a subcontractor for Scintilla on electrical parts? That part of the story deserves its own telling.

### We Seek Direct War Work

We at Behr-Manning's felt strongly that despite being extremely busy on our regular line of coated abrasives, so important as a tool to producers of practically all types of war products, we should contribute more directly to the winning of the war by making materials badly needed for the fighting forces, especially as we had at that time some available floor space and spare capacity in our large and unique drying ovens. So some of us set out to look around for articles which fitted the equipment available.

We filed the record of our facilities with the W.P.B. offices in New York, Albany and Rochester. This led to negotiations with the Rochester Ordnance Bureau for consideration on armor-pier-

ing or other shell contracts.

Because of the pressure for more and more airplanes, we decided to contact some of the aircraft and aircraft accessory manufacturers for advice. Elmer C. Schacht, Vice-President and Works Manager, and John O. Amstutz, our Chief Engineer, met Mr. Hanni, General Manager of Scintilla Magneto Division, Bendix Aviation Corporation, February 12, 1942, in New York, and told him of our desire to contribute more directly to the National war effort, explaining that we had a large organization with some floor space, help and equipment available. Mr. Hanni was very much interested in our story.

But, you may say, "how did you know of Mr. Hanni and Scintilla?" The answer is quite simple: it was through past associations of our Chief Engineer with Brown-Boveri & Co. in Switzerland. (The Swiss Scintilla Magneto Co. was once owned by Brown-Boveri & Co., as was also the case with the American Scintilla Magneto Co. for a short time.) So, Mr. Amstutz knew most of the personnel who

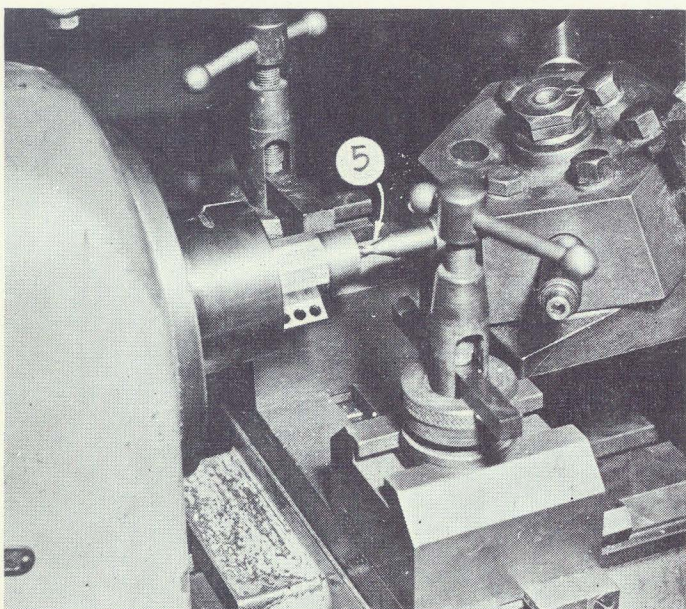
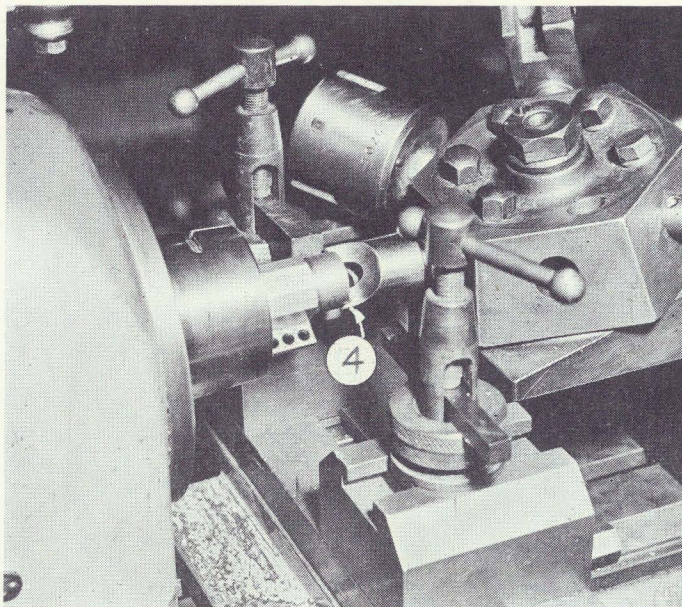
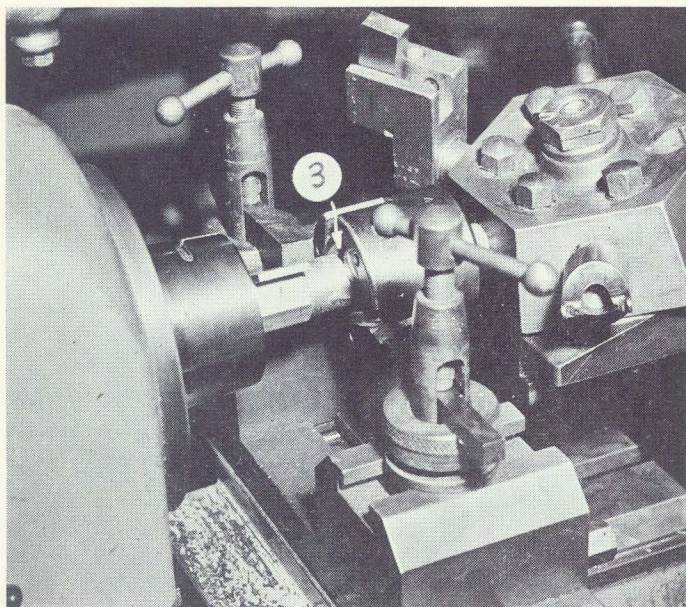
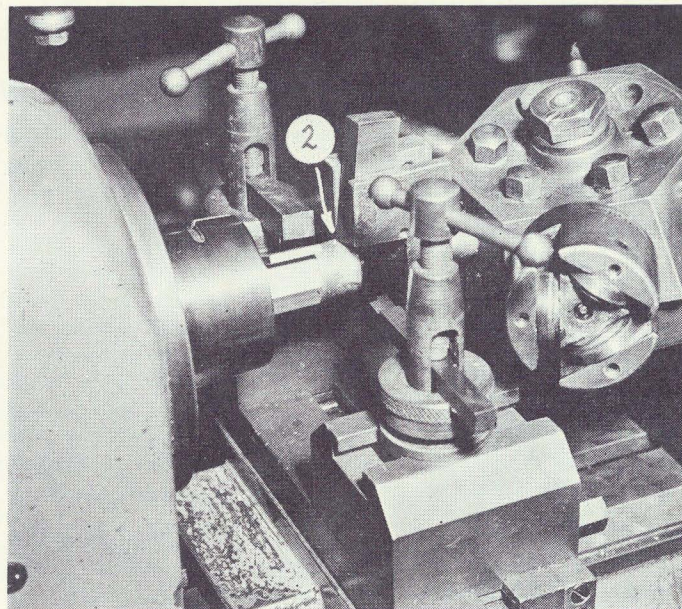
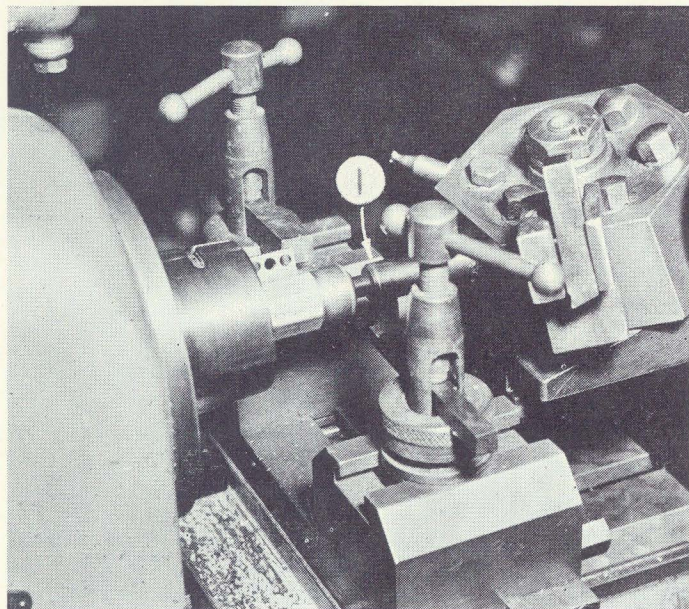
(continued on page 15)

Behr-Manning "Pioneers" (see story!). Seated, l. to r.—T. McMahon, T. Winters, W. Clark, H. Clark, K. Goetz, W. Bradshaw. Standing, l. to r.—W. Fulkerson, L. Landau, L. Miller, M. Witherell, F. Matthews, N. Curry, H. Rettie, A. Thomas.





# "SUGGESTION-EERING" AIDS DRIVE FOR VICTORY



In order to appreciate the significance of these photos, the reader must observe closely the different tools indicated by the arrows. This series portrays another example of a suggestion that has been incorporated into regular production routine. It shows new machining methods on a Brass Shell Condenser, as suggested by Paul Holmes, 15-372. See story below for description.

*Photos by Norman C. Meagley*

The photos on this page illustrate a new production wrinkle instituted as a result of a suggestion submitted by Paul Holmes, 15-372. The material involved is a Brass Shell Condenser, and the suggestion dealt with speeding up machining operations and improving quality at the same time. In actual practice, production was doubled and quality was greatly improved.

Under the old method, the condenser went through six operations . . . with four machines used for the six operations. Result: time lost in properly setting pieces for machining . . . too many rejects because of faulty workmanship due to inadequate holding fixtures . . . difficulty experienced in maintaining high quality standard.

Briefly, here is what was accomplished by putting into practice the suggestion outlined by Mr. Holmes. The new method eliminates the holding problem. All operations are now per-

*(continued on page 8)*



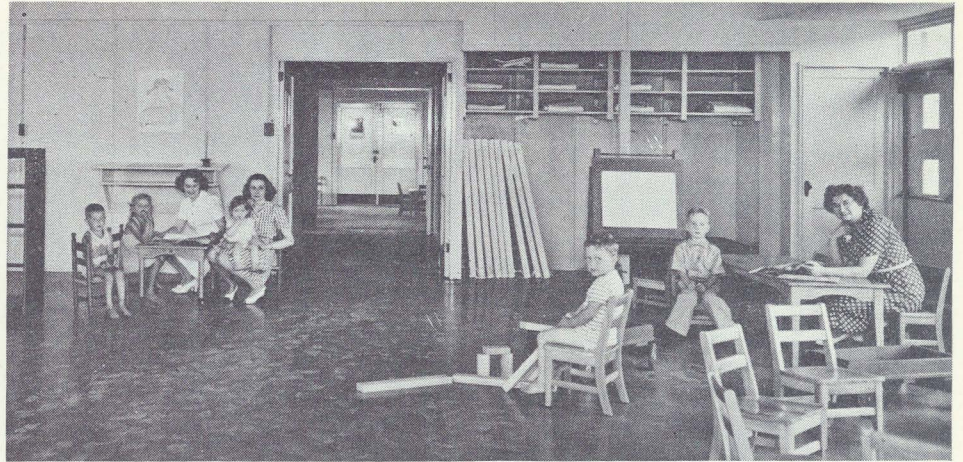
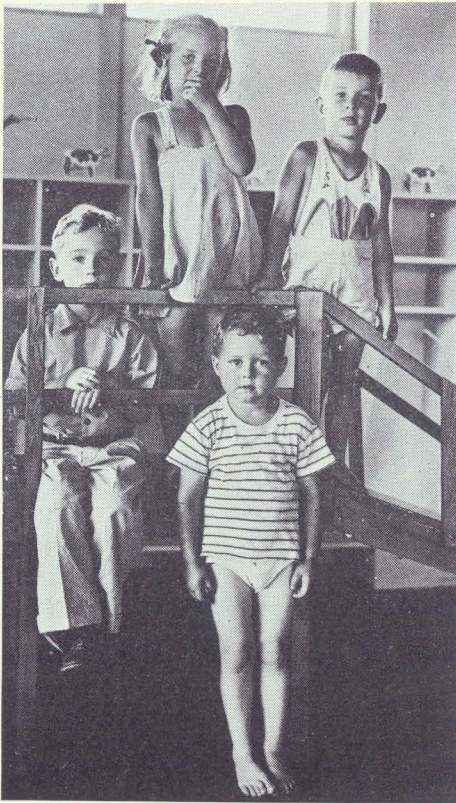


Photo at left is a close-up of several of the younger generation who were on hand to help open the Sherwood Heights Child Care Center early this month. The way we heard it, "small fry" in the striped shirt was in such a hurry to get there he neglected to wear his visiting pants. Above photo shows partial view of one of the rooms in the center, with attendants and prospective customers ready for business. *Photos by Harry Earl*

## Sgt. Loker Wins Distinguished Unit Badge

Sgt. Howard A. Loker, son of Mr. and Mrs. Fred Loker, Walton, has been awarded the Distinguished Unit Badge. Sgt. Loker is a member of a B-24 Liberator heavy bombardment group that has twice received the presidential citation for its outstanding performance. The first citation was received for the low level attack on Ploesti oil fields in Rumania, last August. The second citation was given for outstanding efficiency and sustained operations.

He is head of his squadron's electrical department, and, before entering the Army in April, 1942, was employed in Department 22. In addition to the above mentioned awards, Sgt. Loker also has been awarded the Good Conduct Medal, and the European-Middle East-African Ribbon, plus 4 stars.

## Norwich Branch Closed

On July 8th our Norwich Branch ceased operations and all activities conducted there have been transferred back to Sidney.

The Norwich Branch had been in operation slightly more than a year, having begun on June 1, 1943. The plant, employing approximately a hundred people, was located in the Jones Block on Fair Street, which formerly served as the sales room and service shop for the Oldsmobile agency.

A majority of the employees who worked at Norwich have returned to Sidney where they will continue employment with the company.

## Planting the Back Forty

Once there was a farmer who had patriotic instincts. He read in the newspaper that there was an imminent food shortage threatening the United States, including Maine and Brooklyn. So, he heaved a sigh and three forkfuls of manure, pulled on his suspenders, siphoned some gas from his tractor and went to town to get some seed to plant the back forty in edible tubers, better known as "spuds."

At the seed store he was given 409 blanks of Ration Form 3097186566887-Z1257-C8-MI, five gallons of ink and a free box of aspirin and told to send this form in sextuplicate to the War Department, Franklin Roosevelt, Lydia Pinkham and Haile Selassie. Then he would be eligible to apply for Ration Form 388984-Z-2, which with form AC-21688988692-Z-3 and ten thousand dollars to cover the cost of handling, and a new Rolls Royce for the ration board, would enable him to buy the burlap bags to carry his seed potatoes.

Nothing daunted this fearless citizen then intrepidly made his way to the ration board to apply for fifty gallons of gasoline to plow his lot. He was told to make application in person at midnight on St. Michaelmas Day, and if the moon was full and the ground hog did not see

his shadow, he could have this allotment.

Returning happily home, he awaited further developments.

In the mail he received a notice that his application for 90,000 gallons of gasoline had been granted and that he was also eligible for 1 1/4 lbs. of seed potatoes, and if he would sign a promissory certificate to plow under 7/8 of his crop, he would be permitted to vote twice in the next election, without paying a poll tax.

Somewhat confused by this clear-cut definition of his right, this moron wrote a letter stating that he did not want 90,000 gallons of gasoline . . . he wanted 400 lbs. of seed potatoes and, also, why in hell did he want to vote while Roosevelt was still alive.

By this time, our hero had a great yearning to plant potatoes, so he stealthily purchased from a reliable black market several bags of seed potatoes at a very reasonable price of only \$425 a bag.

This was reported to the F. B. I. and he was apprehended by J. Edgar Hoover, a troop of Horse Marines and the Sea Scouts. This vile character was condemned to raise potatoes at Sing Sing on the Hudson to be distilled into vodka for substitutes for 100 octane gasoline.

Moral: potatoes are the root of all evil.

I was sitting 'round this evening,  
Was athinking of the past,  
Just adreaming of our old friends  
And some vows that didn't last.  
I was thinking of the future,  
And how hard 'twould be to fight,  
When our minds kept straying backward  
To the boys who didn't write.

Chester Egnaczak, S 2/C

## Department 18

First, news from our boys in the Service: We are very glad to know that Lt. Don Patchen is a prisoner of war instead of "killed in action," as it was first reported. The last we heard of Hugh Kelsey, he was in England. And Dick Flanders is temporarily stationed at Fort Dix.

Betsy Ann Strain is now on our sick list. We miss you and hope you'll soon be back with us, Betsy.

I wonder if Charlie was able to find a cook (preferably young and female) to take on his fishing trip.



# SAFETY SLANTS

During the early part of June, equipment (see photo) was purchased for the purpose of cleaning out the sumps on various machines using oil solubles. By use of this new piece of equipment, the liquid and sludge in the sump of the machine is pumped out, then through a filter and into the receiving tank on the cleaner. If the liquid is a water soluble, it is filtered free of sludge so it may be discharged into the water drain, and a new batch of coolant is added to the clean machine.

If the liquid used is oil, the filtering process is so effective that the filtered oil may be pumped back into the machine for reuse. However, if the life of the oil is depleted, or if there are any suspicions of contamination, new oil is placed in the machine.

In addition to the saving in oil, a great time factor is involved also. Previously it took from an hour to an hour and a quarter to thoroughly clean a machine. By using this new sump cleaner, a machine may be thoroughly cleaned in from five to eight minutes. If the oil is filtered and pumped back into the machine 15 to 18 minutes are required. This means a machine can be thoroughly cleaned while a new operation is being set up.

**IF YOU NEGLECT  
FIRST AID YOU CAN  
FIND THE DEFINITION  
OF "INFECTION" IN  
ANY DICTIONARY**



The Safety Department has great appreciation for this equipment and it is felt that much can be done to help con-

trol our problem of Dermatitis, as all machines performing wet operations will be placed on a definite cleaning schedule.

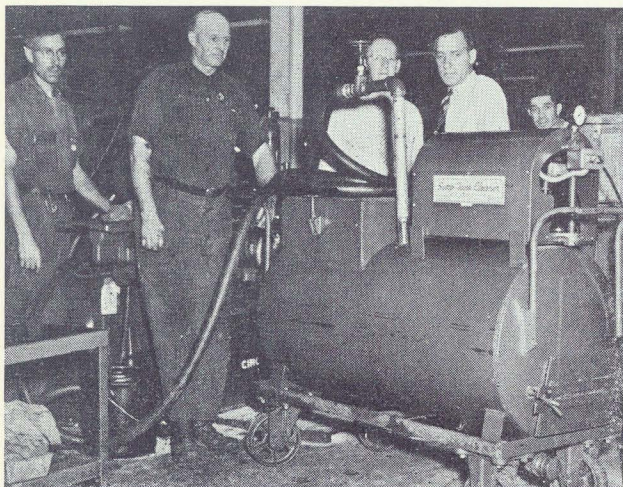
However, the best equipment that can be purchased cannot in itself provide the complete answer to Dermatitis or oil poisoning.

It has been frequently pointed out that proper personal hygiene can prevent 92% of all Dermatitis cases caused by contact with oils or solubles. Frequent washing with soap and warm water is very necessary. Operators should wear oil-repellent aprons and avoid as much as possible all skin contact with the liquid.

Scintilla is buying the best grade of oils that can possibly be secured. The purchase of this new machine cleaner is further evidence of our effort to reduce Dermatitis. Can we depend on you, as an employee, to do your part? Keep your machine, your work area and your clothing as free from oil as is possible. "Ply," a protective cream, is also available in First Aid. After a thorough washing, the application of this cream will fill the pores of the skin and prevent oil and dirt from closing them.

On several occasions this Department has been asked for an opinion regarding the use of small electric fans belonging to individual employees. Throughout the shop many of these small fans are now in use because new fans are very hard to procure, and management is very willing to cooperate to the fullest for the comfort of the employee.

However, in the interest of Safety, you are requested to contact Mr. Payne in Department 22 and have a wire screen guard placed on the fan to prevent finger injuries, or the hair of an employee from being caught in the blades. While each of us is fully conscious of the painful injuries that an electric fan can cause, we must not forget that others may unconsciously come in contact with our fan and thus be injured.



New sump-tank cleaner in operation on Line 52. Old coolant and sludge is being removed from a Cincinnati Wet Grinder. L. to r.—Guy VanPelt, William Schultis, cleaner operators; Charles Walsh, Safety Department; Ray Beames and grinder operator, Leo Allen.

★  
PVT. KENNETH M. PALMER is now stationed at Fort Williams, Maine. Ken used to be our faithful Scintillator reporter in Department 37.  
★



## SUGGESTION-EERING (from page 6)

formed on a hand screw machine equipped with a quick action collet which holds condenser firmly in place. As is shown in the photos, a turret serves as a holder for all of the tools required in the various operations.

Beginning with the first operation, each succeeding operation is set up merely by revolving the turret and bringing the next required tool into working position. Compare this with the old method which called for two operations on a speed lathe, one on a small engine lathe, two on a drill press and one on an emery wheel.

Let's follow the photos accompanying this story and see how this suggestion works. Unfortunately we had to jump to another page with this description, but just turn back to the photos and you can see how the job is done.

With the exception of the tools as they appear in working positions, these photos are all pretty much alike. They were purposely shot from the same angle in each case to facilitate recognition.

In Photo #1, the arrow points to the tool used for locating the condenser on the machine. This is the first operation. Condenser must be centered in the collet and inserted to the correct distance.

Photo #2—Arrow indicates Forming Tool in working position. This tool forms solder on condenser to fit rollers in Pressing Tool which is used in next operation.

Photo #3 — Arrow points to Solder Pressing Tool. In this operation the tool compresses the solder, forcing out pin holes caused by air bubbles in solder. The next operation, not photographed separately, is removal of excess solder. Tool for this purpose appears directly above and behind condenser in photo 3.

In Photo #4, tool directly in front of condenser cuts condenser to proper length and turns radius on end. Arrow points to tool used for Spinning down shell on formica washer. In other words, it turns over the edge of the metal shell, pressing it tightly against the formica washer.

Photo #5—Arrow indicates tool for cutting stud to proper length for spinning stud end over nut.

We have gone to considerable detail to show how, with a basic knowledge of the job to be done an employee who studies the problem can come up with an idea that will revolutionize the old method—and be worth dollars and cents to the individual.





Just to be on the safe side, the Scintilla Fire Brigade recently spent a few hours in a periodic check-up of our fire-fighting equipment. Here are a few of the boys testing hose under a water pressure of 150 lbs. L. to r.—Lawrence Mills, Louis Smith, Paul Buchert, Andy Yarter, Max Miller, Duane Dutcher and Norm Allen.



With the exception of several who work on another shift, the above group constitutes the personnel of our fire-fighters. Front, l. to r.—Milo McGinnis, Ray Laraway, Earl Hendee, Clarence Lipka and Bill Bure. Standing, l. to r.—Gerry Walker, Ernest Price, Duane Dutcher, Capt. George Darrin, Lawrence Mills, Louis Smith, Norm Allen, Andy Yarter, Max Miller, Chief Harry Dickinson, Paul Buchert and Ken Payne. Photos by Harry Earl

### Stock C Notes

We wonder what young man had a hay-  
ing bee last week and served hard cider, mak-  
ing some of the boys two days late for work.

"Mr." Nelson sure is pleasant these days  
since he's been made a grandpa.

"Uncle Jimmy" wants a set of air brakes  
on his chair. He looks awfully funny lying  
on his back in the corner.

What young lady would rather play ball  
than eat during her lunch hour?

Mr. and Mrs. Wilson Spry will spend their  
two weeks' vacation at their former home in  
Marshfield, Wisconsin.

Harry Martin is recuperating from an op-  
eration at Smith's Hospital at Walton.

### Marines Express Thanks for Books

The following acknowledgment re-  
cently received by Patrolman Robert L.  
Cook, came after the Parris Island, South  
Carolina, U. S. Marine Corps Base had  
received the shipment of books contrib-  
uted by Scintilla employees last spring.

Letter was signed by Capt. H. G. Glunt,  
Post Chaplain and Officer in Charge of  
Post Libraries.

"The books arrived in good order and  
we were happy to find them in fine con-  
dition and that many of them were quite  
recent publications, also that the selec-

## BOSS ENGINEER (from page 3)

His very first job landed him in the ac-  
cessory business. He became a draughts-  
man with the Safety Car Heating &  
Lighting Co. From this he went to the  
Bijur Motor Lighting Co. to become asso-  
ciated with the electrical genius Joseph  
Bijur in the creation of automotive start-  
ing and lighting system. It was here that  
he met up with the Liberty engine.

### He Had Faith in Future

In 1918 Bijur was bought by General  
Electric and from there on C. M.'s trail  
becomes so tangled he himself can hardly  
recall it. G. E. sold Bijur to the Eclipse  
Machine Co., which in turn was acquired  
by Bendix Aviation Corporation in 1929.  
Afterward came divisions and mergers  
galore.

In 33 years, C. M. was variously  
draughtsman, engineer, chief engineer,  
plant manager, production head and ad-  
ministrator. Sometimes the change made  
the future rosy; other times, dark. But C.  
M. had great faith in the future of avia-  
tion and, whatever the job, he kept rising.  
The last rise carried him from vice-presi-  
dent and eastern group executive to vice-  
president of the entire engineering  
organization.

From his present vantage point he  
looks to the postwar world with realistic  
eye. Incidentally, he dislikes the word  
"postwar" and uses "future." He talks  
about what we (the organization) are go-  
ing to do without any "ifs" and "buts."  
His plans go forward regardless of the  
political scene.

The nation will have to come to a de-  
cision very soon, he says. "Either we can  
decide to take out cheap insurance  
against a repetition of these 25-year holo-  
causts by maintaining an adequate Army  
and Navy, and incidentally help the em-  
ployment situation, in which case taxes  
will remain relatively high, or we can  
struggle to regain a lost part, turn paci-  
fistic, reduce taxes, and have apples sold  
on street corners."

### If We Go Unprepared—

C. M. is for retention of military might.  
He's traveled abroad extensively and

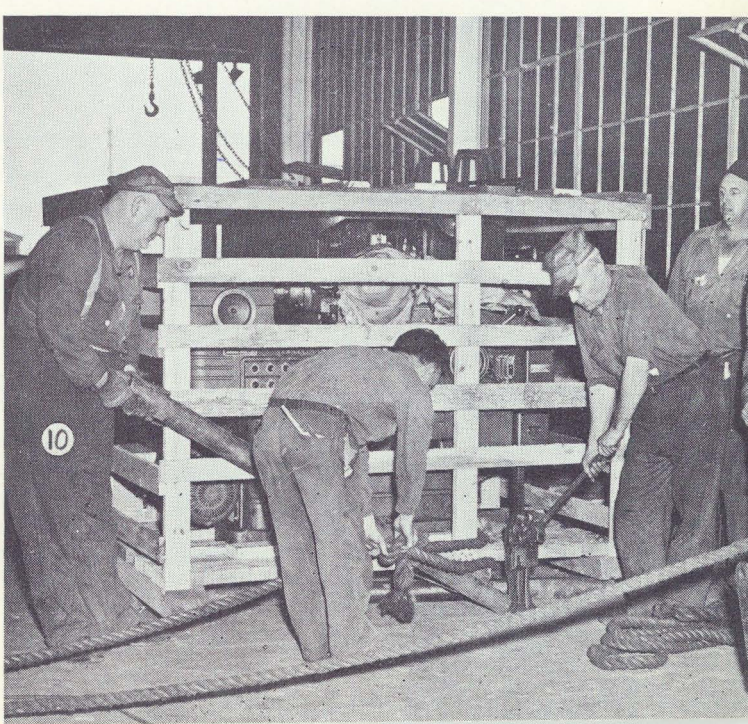
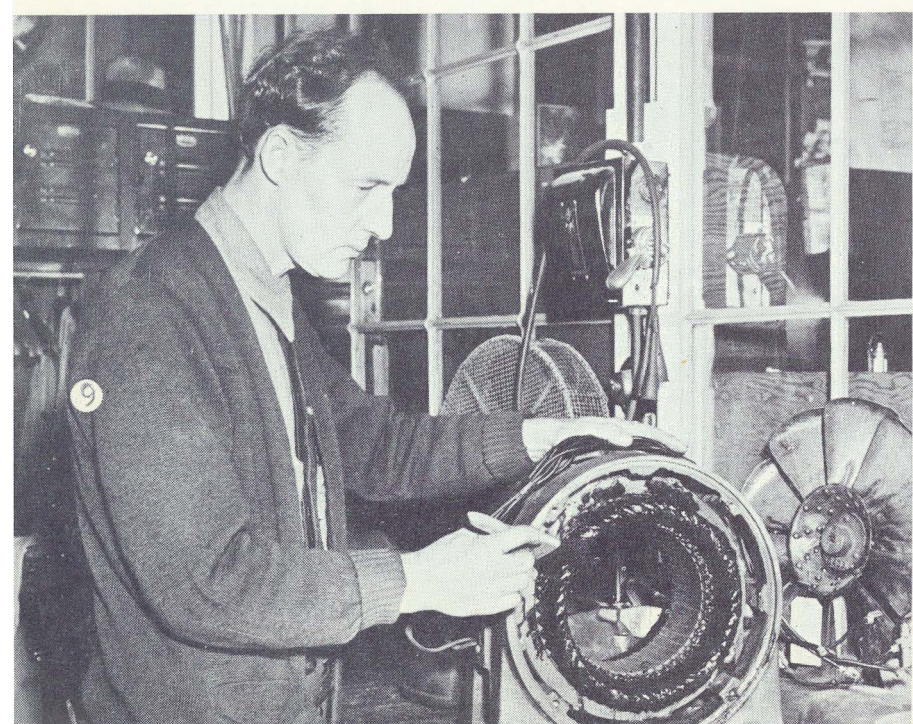
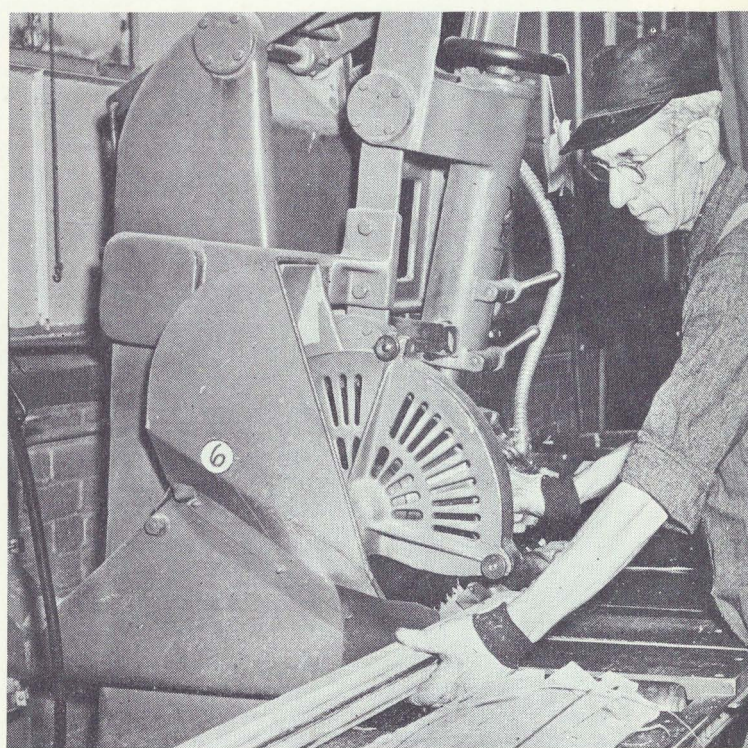
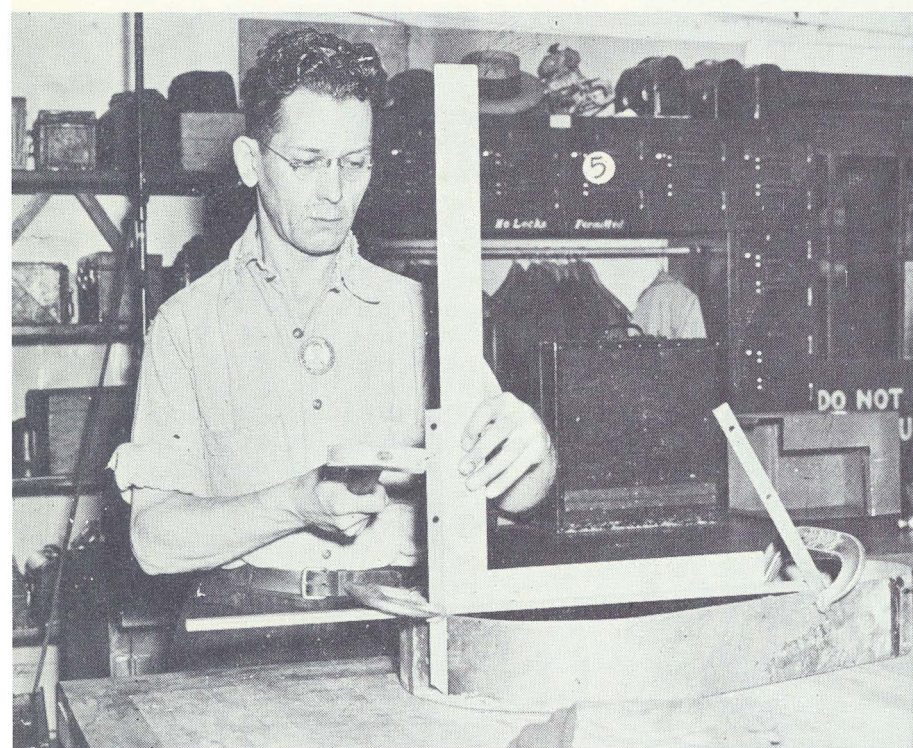
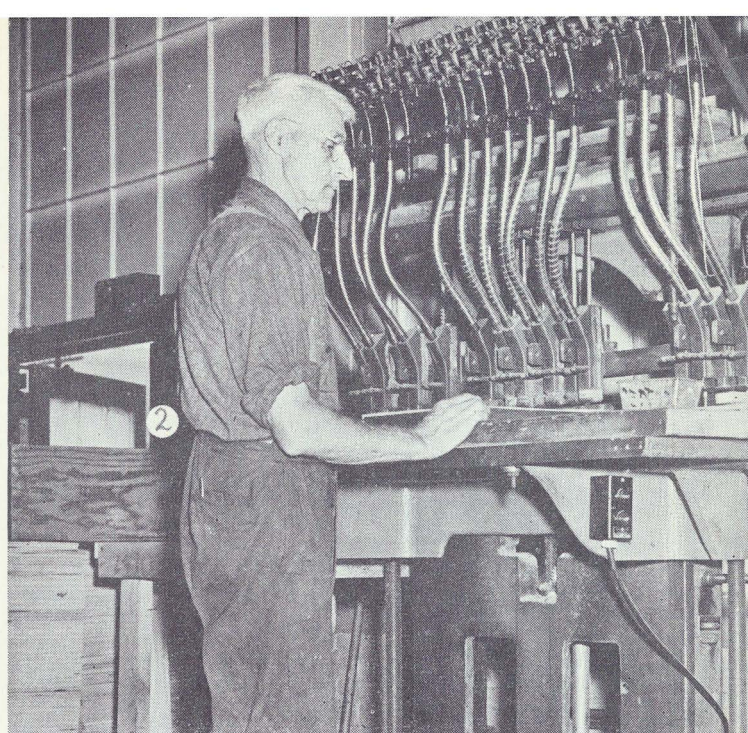
(concluded on page 13)

tion was varied covering fiction and non-  
fiction, the latter contained many sub-  
jects that would be of interest to the boys  
stationed here. The books have already  
been placed in our main library and its  
several branches, including the latest ad-  
dition, the Women's Reserve branch.

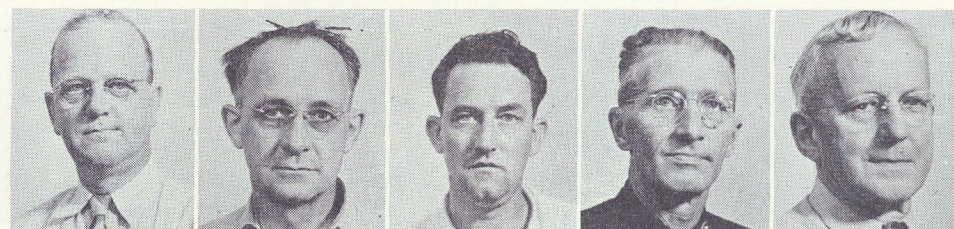
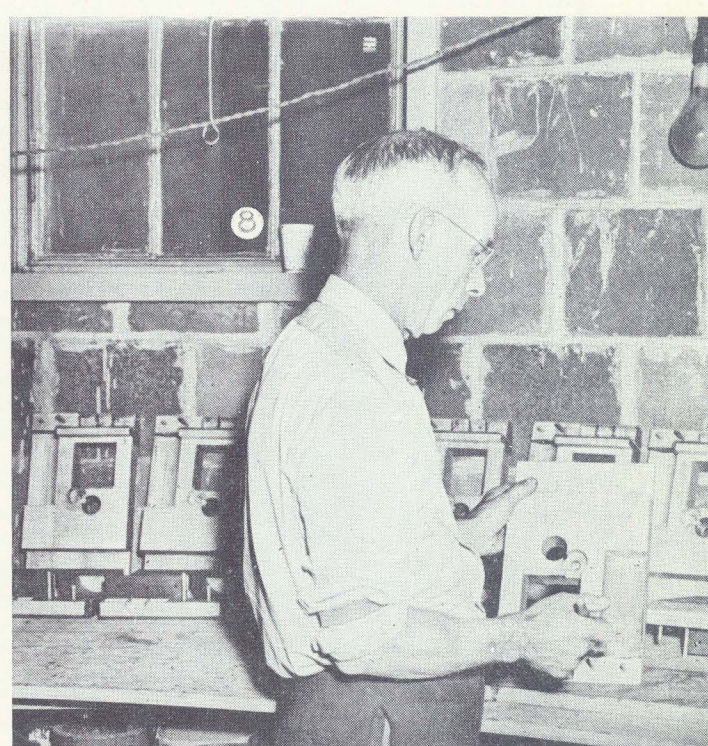
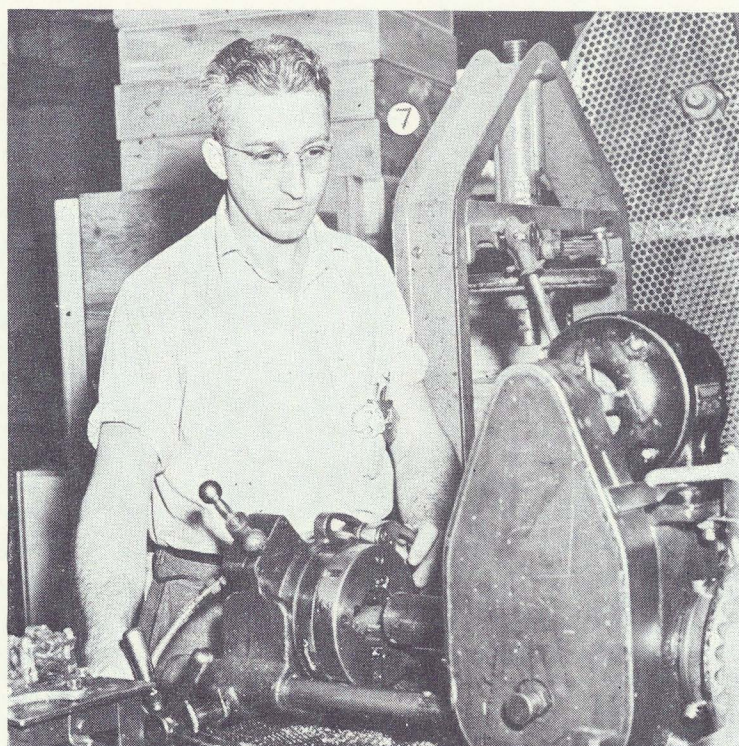
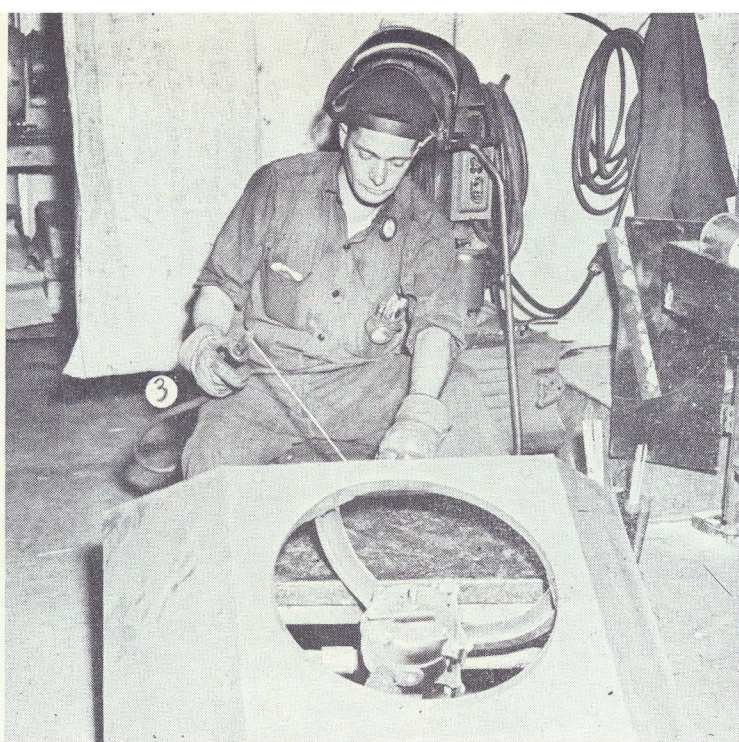
"We greatly appreciate the effort you  
and the employees of Scintilla Magneto  
Division put into the very generous and  
timely contribution to the Marines of  
Parris Island who are undergoing such  
strenuous training. The shipment arrived  
at a most opportune time, just when we  
were reorganizing several of our  
branches.

"Please express our thanks to your  
fellow workers."









L. to r.—K. D. Payne, Dept. 22 Supervisor; Austin Dart, General Foreman; William Rosa, Night Foreman; Herb Anthony, Electricians' Foreman; Walter Meiner, Carpenter Shop Foreman.

## Links in Our Production Chain . . . Department 22

Jobs shown on these two pages are typical of the activities conducted by Department 22. Due to the wide variety of operations falling within the jurisdiction of "22," we were unable to include all of them.

Photo #1—George Mischler and Carl Boland, Sheet Metal Workers, working on part of exhaust system for Engineering Lab. Photo #2—Walter Davis operating a nailing machine in the Carpenter Shop. Photo #3—Charles Ashton inspects work after arc welding operation on Exhaust Fan Housing.

Photo #4—Rudy Pataki, Carpenter Shop, building pallets for second Assembly Conveyor. Photo #5—Bert Boorn at work on another phase of Sheet Metal operations . . . building a machine guard. Photo #6—Cutting lumber to length on a swing cut-off saw . . . Arthur Fargo, Carpenter Shop.

### STORY ON PAGE 12

Photo #7—A handy gadget to have around a plant . . . an electric pipe threading machine. Lloyd Davis is the operator. Photo #8—Taken in the Paint Shop in the lower section of the coal silo. Chauncey Allen puts finish on pallets built by Rudy Pataki. Photo #9—Les LaValley, electrician, applies compound to windings of a motor under repair. Motor is for a Warner-Swasey lathe. Photo #10—No place for a featherweight. Members of the millwright crew show how they handle machinery on loading dock. Men in photo include Virgil Turner, Ralph Lee, Tom Hatt, Ivan Cole and Kenneth Wilson.

Photos by Norman C. Meagley



# LINKS in our Production Chain

## MAINTENANCE DEPT.

An organization as large as Scintilla could no more function without a Maintenance Department than a fish could live out of water. No great amount of imagination is required to visualize the confusion and chaos that would prevail throughout Scintilla should we suddenly find ourselves without the services of the boys in overalls. We take it for granted, of course, that some of our Scintillites are only ribbing when they insist that the boys in Maintenance are guilty of *creating* chaos!

The Maintenance Department will be twenty years old next October. From a small beginning with four employees, it has kept pace with Scintilla's expansion program and now carries ninety-six employees on its payroll. K. D. Payne, Maintenance Supervisor, has headed the Department since its origin, and will soon be wearing a 20-year Service Pin. Other members of the supervisory staff are Austin Dart, General Foreman; William Rosa, Foreman (nights); Herb Anthony, Foreman, Electricians; Walter Meiner, Foreman, Carpenter Shop.

In reviving memories of the early days in the department's history, it was pointed out that the present day equipment used in 22 is so far superior to the old style tools and methods that there is no comparison between the two. In most cases today, there are either a convenient method or the proper tools to do

any job they are called upon to do. Twenty years ago native skill and ingenuity were needed to get the job done. And according to Mr. Payne, they tackled a lot of tough jobs and won. The Maintenance boys have had a big hand in every expansion made by Scintilla. They have a feeling of kinship with the machines, the wires, the pipes, and all the other physical properties contained in a plant such as ours. They installed most of them, and they see that they are kept in running order.

Under the general heading of "Maintenance" are the carpenters, millwrights, sheet metal workers, welders, electricians, plumbers, painters, oilers and greasers, and employees whose jobs include general upkeep of buildings and grounds.

Versatility is a prime requisite in the carpenter shop. The boys are called upon to make anything from a billboard to a desk drawer . . . and they usually come through with the goods. A large percentage of carpenter shop activity centers around shipping. They build boxes used for shipping our products, and whenever it is necessary to ship heavy goods, such as machinery, they build the crating. Desks, tables, filing cabinets and other miscellaneous office furniture have also figured largely in the picture since these items have been on the scarcity list. At one time many patterns for castings were made, but this phase of operations has been a minor one for some time. With the many changes constantly occurring around the plant, they are always busy erecting or moving partitions, and indulging in general carpentry tasks.

The millwrights are the boys who have the "know how" for doing the heavy jobs. When a plant or office department shifts to a new location, they take over with trucks, skids, winches, and what-have-you. They make the job of moving a machine weighing several tons look as easy as

falling off a log. With their up-to-date equipment, no one would be surprised to see them jack up the plant some day and move it across the river. They always have plenty to do . . . Scintilla millwrights have a full-time job.

Exhaust systems, machine guards, conveyor benches, assembly benches, steel racks, and other equipment of a similar nature are built in the Sheet Metal Section. Welding also is allied to this department.

Electricians are responsible for installing power lines where needed, maintenance of lights, public address and clock systems, repairing motors, and any number of other jobs requiring the use of "juice." Also, they have been known on occasion to install electric fans here and there . . . a subject which has been "heatedly" discussed by many Scintillites since the shortage of fans became most obvious!

The plumbers occupy themselves with supplying and maintaining air, gas and water lines, and some repair work on steam lines. No one has ever made any reference to outstanding habits of forgetfulness on the part of our boys with the wrenches, therefore we assume that their record is clear on that score.

Our staff of painters never find time hanging heavily on their hands. Between painting interiors and exteriors of the buildings, and applying finish to desks, cabinets, tables, etc. . . . plus the sign painting requirement . . . their working hours are well filled.

Oilers and greasers are responsible for lubricating transmissions, motors, pumps, exhaust systems . . . about 4,000 motors in all. At the moment we have no accurate figure on the amount of oil and grease used in a year, but needless to say, it runs into a lot.

Caretakers look after the lawns, side-walks, shrubs, roads, etc. Many visitors

### Gun Club—Department 93

Several from our department have checked out, namely Olive Deuel, who has taken a position with the Metropolitan Insurance Company; Margaret McLaughlin, to stay at home; Dorothy Elliott, who has taken a vacation trip to Kansas City; Rowena Barre, to stay at home; and Frances Nichols, who entered Hunter College, New York City, on June 29th for training in the Waves. We were very sorry to see them go, but wish them the best of luck.

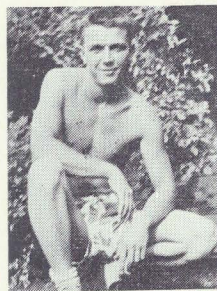
FRANCES NICHOLS of Department 93, Gun Club, entered Hunter College, The Bronx, on June 29th for training for the Waves. She was the first girl of the department to enter the Service.



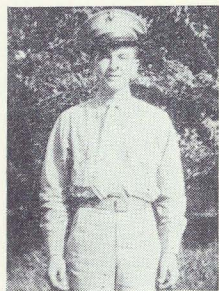
Pauline Hall and Mildred Thomas have joined our gang for the summer. Glad to welcome you, girls.

Florence Smith is still absent because of illness.

Our department went way over the top in the 5th War Bond Drive, and this surely makes us proud and happy.



ROBERT D. HOLDEN



DONALD HOLDEN

Three meetings in the two years of their service with the Marines is the unique experience of Bob and Donald Holden. Bob, a former Department 23 employee, is a ground crew member of a Marine bombing squadron. The brothers enlisted together in the Marines, and met once in this country and again on Guadalcanal and Bougainville. They spent Thanksgiving and Christmas together. Donald is with the Marine Air Corps.

### Note of Thanks

I wish to thank the friends, fellow employees and acquaintances of my husband, Clifford Silvernail, who showed kindness and sympathy in any way during his recent illness and death.

Mrs. Beatrice Silvernail

have remarked about the neat, well-kept appearance of our grounds . . . all of which reflects from the conscientious efforts of the men behind the lawnmowers.

Old-timers in the Scintilla family are well concentrated in 22. In addition to Ken Payne are Jim McGregor, 17 years . . . Walt Meiner, 15 years . . . Guy Fitch, 15 years . . . Tom Hatt, 14 years . . . Austin Dart, 12 years . . . Charles Brush, 10 years.





To date the Sidney Amateur Field Trial Club has 475 pheasants, ranging from 2 weeks to 6 weeks of age, in the rearing pens. The loss has been comparatively light and we should, under normal conditions, release about 450 birds in a few weeks. The committee on the pheasant rearing program would like volunteers for help in feeding the young birds as they grow older. At present this consumes a large amount of time of a small group of people and leaves them little or no time for their personal business. Anyone who will help in this project please contact the writer or Ralph Mason in the Tool Room. Cooperation will be greatly appreciated.

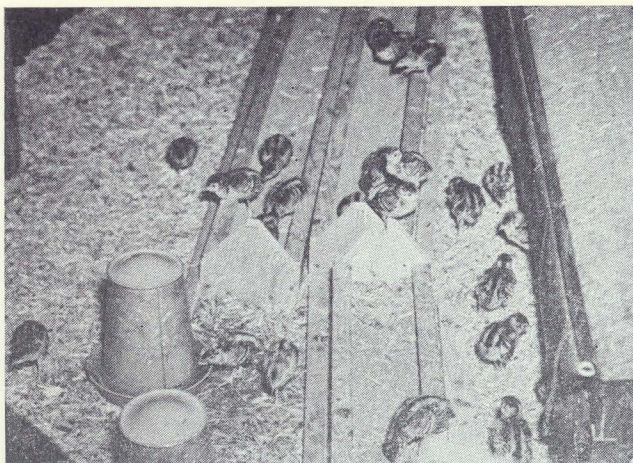
The fishing contest is making fine progress. So far quite a number of rainbow trout has been caught and registered. However, it looks as though the big one has yet to be brought in, as most of the fish now registered range from 10 to 14 inches.

The Amateur Field Trial Club is planning to hold its second annual field trial late in September or early in October. The tentative plans are to run a one and one-half day trial instead of the previous one-day affair. Many more members and interested parties who did not take part last fall are planning to run their charges this year. At present, the plans are to run a puppy stake, open shooting dog stake, member shooting dog stake and member Spaniel shooting dog stake. With the exception of the last stake mentioned, stakes will be for the pointing dogs, such as Irish Setter, English and Gordon Setter and Pointers. This will take considerable more time than a one-day meet.

We would like to bring to the attention of the readers a Pointer male for sale. This dog has had considerable experience, but is one of those dogs that requires a great deal of work, due to his excessive energy. He would make a fine prospect for someone who has the time to work him, and the writer feels he could win in fast field trial company if given the opportunity. For further details regarding "Mike the Miller," please refer to the Barter Column of this issue.



★  
Formerly an employee of Department 51, Rolin J. Caiozzo, S 2/C is now stationed in Hawaii with the Sea Bees.  
★



Pheasant chicks like these are now in the process of being raised for benefit of S.A.F.T.C. members in the fall hunting season.

## BOSS ENGINEER (from page 9)

studied Russia's defense preparations at first hand as recently as 1938. Unpreparedness leaves him cold. He believes we escaped disaster this time only by the grace of God and the hair of an eyebrow, but that we won't escape the next time if we go unprepared.

He sees science in its application to war moving too fast and becoming far too complex to permit us to neglect our defenses and expect, in point of time, to catch up at the 11th hour as we have this time.

Behind this conviction there ranges a knowledge of the technological world and a perspective that few possess. C. M. knows what's been done, what wonders are in the works, and his over-the-horizon vision makes him apprehensive of our national decision.

### Meaning of Postwar Planning

But fear is a "lousy instinct," according to C. M. He hates to see an atom of it among his men, and he regards fear of the postwar as a reflection of inadequate vision. He doesn't distinguish between the present and the future as most men do. Progress is a continuing phenomenon in his life; peace and war merely shift the direction.

In one sense Bendix makes products just like any other manufacturer, but to C. M.'s mind it makes systems—systems applicable to peacetime uses.

Many in industry may be surprised to learn that the principle used in the control of the directional axis of the automatic pilot can be employed in solving many problems in catalytic oil refining, in control of sheet rolling operations in steel mills, and in paper manufacture.

That's why C. M. says, "Postwar planning consists in extending known principles to their broadest possible use in business and industry." That conception leaves the future limited only by one's imagination.

### Diversions Are Stimulating

C. M. has many diversions despite his well-filled industrial life. He's an accomplished pianist and a devotee of Mozart

## Suggestion Office in New Location

On Thursday, July 13th, the Suggestion Department was moved from its old location in the Training Office to new quarters in the Personnel Office. They may now be reached on Extension 431.

### DON'T BE AN ACCIDENTEE!



and Bach. Anything composed since the end of the 18th Century is wasted on him. He dislikes golf intensely. He goes in for croquet on an enlarged court, swims, and sails, when vacations permit.

His home in a New York hotel is a rendezvous, and a crowded one, for musicians, writers, engineers, and even poets. C. M. finds the mind of a poet the most difficult to understand but he keeps trying. With him are wife and daughter, Eleanor. The other daughter, Carol, is married to author William Saroyan, now an Army private.

A small, mongrel Pekinese, named Tinky, completes the menage. Tinky has the run of the place and interrupts his master freely. The pup's curiosity is insatiable, which probably explains why he gets on so famously with his master.





Nurses Aides at the Sidney Hospital who recently received their diplomas upon completion of the Nurses Aides course. Graduation exercises were held at the Sidney USO.  
Front row, l. to r.—Cora Wheat, Marie Bernhard, Dorothy Pearsall, Frances Butler, Marian Mahoney, Catherine Voltz. Rear l. to r.—Doris Cumber, Alma Camenga, Leona Edwards, Lois Pickering, Charlotte Lansing, instructor; Elizabeth Evans, Charlotte Daly, May Brandt.

### Packing Bench

Evelyn Archer bought the first Bond in Department 26, if not the first in the plant, during the 5th War Bond drive.

Nearly all the members of the Packing Bench have had their vacations.

PFC Ralph Weeden of Louisiana was in to see us while home recently.

Evelyn Archer has been presented with an Individual Production Merit Certificate for a suggestion submitted and accepted recently.

Marjorie Forsythe spent part of her vacation in Scranton. We wonder what Scranton has that Windsor hasn't.

The Packing Bench held a very lovely picnic dinner July 4th, with plenty of good eats.

Laura Wells has received word that her son, Edward, is well and in France. This is the first word received from him in several weeks.

The other morning Grace MacLean was hurrying around so she wouldn't miss the train, and just before she left she gave her husband two eggs for his dinner pail, saying she had boiled them the night before. About noon, Mac decided one of those eggs would taste awfully good with a sandwich, so he picked one up, gave it a hard crack to break the shell, and spent the next few minutes cleaning up the mess. Mac didn't say much, except that it couldn't happen again (by this time quite a crowd had gathered), and picked up the other egg. This time he gave it a more gentle tap, therefore the mess wasn't so great! It seems in some way Grace had mixed the boiled eggs with the unboiled ones. Mac says he still likes eggs, but prefers them boiled.

We wonder why Dorothy Denny and Evelyn Robinson spend so much time in Oneonta.

Murel Jordan's son, Charles, a former employee here, is now in the Navy at Sampson.

What would the girls do without Wilber to lift those heavy trays?

We've been trying to figure out why Victor Signor likes the lower bench so well. It couldn't be Marg, could it?

## INDIVIDUAL PRODUCTION MERIT CERTIFICATES AWARDED

The Labor-Management Committee of Scintilla Magneto Division at the end of June, presented Individual Production Merit Certificates to twenty-two employees whose suggestions proved to be outstanding.

Certificates were presented to Arthur Hoegger, L. Hallock, John Cable, Cesare Lisi, Charles A. Washburn, Ellis Mellott, W. J. Vaughn, Chester Bame, Howard R. Cating, Paul Holmes, Milton Beemer, Gordon Cushman, Carl Kiff, Gladys Wiltse, E. W. Andrus, Edward Mulwane, Evelyn Archer, Elmore Tompkins, Herman Tannert, Clarence Sherwood, Merle Ihrle and John Frank.



Veteran of 23 missions over Hitler territory is Staff Sgt. Frank W. Cole (right), former Line 54 employee. Sgt. Cole is top turret gunner on a Liberator bomber, with the 9th Air Force stationed in England.



### The Subcontractors

Harken! Helen Hauber "hitched" . . . has heavenly honeymoon. Many old friends joined Subcontracting at Rock Inn on May 25th to cry in their beer over Helen. Each and every one offered their bit of advice, but the gal was determined, she was. Amid such cries as, "Don't leave us, Helen," and "It ain't worth it," she arose and made a very lovely speech, but then she left us, and went to Seattle, Washington where she married Cpl. A. Bruce. All her many friends wish both Helen and her corporal long life and happiness. Subcontracting presented Helen with a bracelet, but Helen took care of the ball and chain for Bruce.

Another loss to the department was the departure of Harvey Wetmore. Harvey left us June 24th, and went home to "mama" at Bluff Point, New York. On Thursday, June 22nd, Harvey peeled a few grapes at the Green Garden with some of the boys, after which they met up with the rest of our gang at Rock Inn where we threw a farewell party for our little Harvey and presented him with a barometer. Tears, cheers, songs, speeches, recalling pleasant memories of our department, and even a horse auction in Unadilla was enjoyed before the meeting was adjourned. Harvey has attended these auctions quite frequently, and we suspected he intended to buy a horse and hold a raffle. We were wrong, but then we've been wrong on raffles before. Yes, Harvey, it was nice knowing you, and our best wishes go with you always, "Bubbles."

During vacation time one would expect things to be rather quiet, but not so in our department when Willy Weed returned from his vacation with an empty bankroll, a couple of fish, and a beautiful "bouquet" of blonde hairs on his upper lip. What a man! Everyone just stared at Bill's "peach fuzz." It must have embarrassed our little Will, 'cause he shaved it off the other day and almost developed pneumonia from leaving his upper lip exposed to the elements.

We wish to welcome Mrs. Ruth Miller to our department. "Ruby" has taken over Helen Hauber's duties.



## Behr-Manning (from page 5)

came to the U. S. A. in the early '20s, and of how Scintilla got its start on 57th Street in New York City. Continuing his relatively close contact with Messrs. Hanni, Steiner, Spengler and other key personnel, and being well acquainted with Scintilla products and activities, it was only natural to turn to them for advice on war sub-contracting.

At our second meeting, which took place at the Bendix office in New York, and after Mr. Hanni had had the opportunity to talk to some of the Bendix officers, especially Mr. Charles Marcus, Vice-President, he suggested that we might make magneto parts for Scintilla. He was in need of more sub-contractors and was under considerable pressure by the Army, Navy and Air Corps to establish second sources of supply for certain items which were, at that time, manufactured only at Sidney.

The idea so presented was quite interesting, but before committing ourselves—in fact with introductions from Mr. Hanni—Messrs. Schacht and Amstutz next visited the Glenn Martin plant in Baltimore and the Bendix Radio Corporation in Towson, Md. The type of work suggested by these companies, however, did not seem so practicable as that suggested by Scintilla, so on their return to New York, they phoned to Mr. Hanni in Sidney, telling him of our definite interest in his proposal.

Only a day or two later, Mr. Gallagher, Mr. Schacht and Mr. Amstutz visited Sidney and learned what Scintilla hoped that we would make for them; viz., important and critical accessories connected with the production of aircraft. We formally committed ourselves to the job, returned to Troy, and immediately got busy on the preliminaries.

Many other visits by different officers and key men took place; tools, fixtures and machines had to be studied; tentative information on costs, manufacturing time had to be collected to enable us to make our first estimates on labor requirements, overhead, material costs, production and other important features. These contacts were, in effect, organization meetings to plan our future activities. As a result of them we agreed to make several types of ignition coils, coil housings, distributor heads and fingers, and also tube harnesses if possible. Now let us see how this has worked out.

## "The Pioneers"—and Results

On February 22, 1942, M. F. Witherell, then Assistant Technical Director of Coated Abrasives, made the first trip to Sidney to study the complete manufacture of high tension magneto coils, followed early in march by L. Miller and W. Bradshaw on machining and molding coil housings and cores. Next went a group of ten coil-winder trainees. In April followed W. I. Clark for Production Control; H. Clark, Dielectric Inspection; K. Goetz, Procurement; T. Winters, Stock



LT. ROBERT H. KNAPP, former Scintilla employee, and seasoned veteran of many forays into the air over Hitler's Europe, took time out to boost 5th War Loan Bond sales when he visited the plant at the opening of the drive. Above, l. to r.—Doris Cumber, Travila Trinkino and R. T. Snowden, Bond Committee Members; Lt. Knapp; Miss Clarice Weeks; Margaret Decker of the Committee, and Harry Walton, Jr., Supervisor, Scintilla Bond Department.

Photo by Norman C. Meagley

Control; T. McMahon, Engineering; W. Fulkerson, Electrical Testing Equipment; H. Rettie, J. MacDonald, R. Ciejska and C. Corr on Tube Harness Production; A. Thomas, Harness Inspection; and N. Curry, Raw Material Inspection.

Production men, chemists, electrical engineers, and technicians, skilled in the specialized requirements of coated abrasives manufacture, went with this group to study the machines, tools, equipment and methods of the new industry. All had to make the change from a process industry to a mechanical—electrical industry with its scores of strange new parts, materials, and operations, for this was not conversion from peace-time goods to related war-time goods; for us a new industry had to be developed.

May brought us the initial shipments of machinery and equipment, lathes, molding presses, coil winders, drill presses and vacuum ovens, freed by Scintilla in anticipation of the help that was to come. Molding, machining, winding and assembly lines sprang into life. Scores of operators from every plant, business and home in the area were hired daily and their instruction begun by the handful of trainees now returned from Scintilla.

June, 1942, saw our first actual delivery of magneto coils, distributor fingers, and 18-Cylinder tube harnesses. Then started a steady climb, as more equipment, more operators and more skill brought greater production, including a new item, distributor heads.

But even as the new plant was absorbing these first three products, Behr-Manning engineers and planners were tooling up for two new cast, filled ignition harnesses. An entirely new machine and assembly line, new filling, testing and surface treating departments had to be set up and manned. Scores of new raw

materials and parts had to be provided for. The new harness project would dwarf the original undertaking, but both schedules would have to be maintained at ever increasing rates. A whole new sandpaper building was drafted for filling, baking, painting and testing alone. Hundreds of part drawings, tool drawings, specifications and design changes were assimilated and put into force.

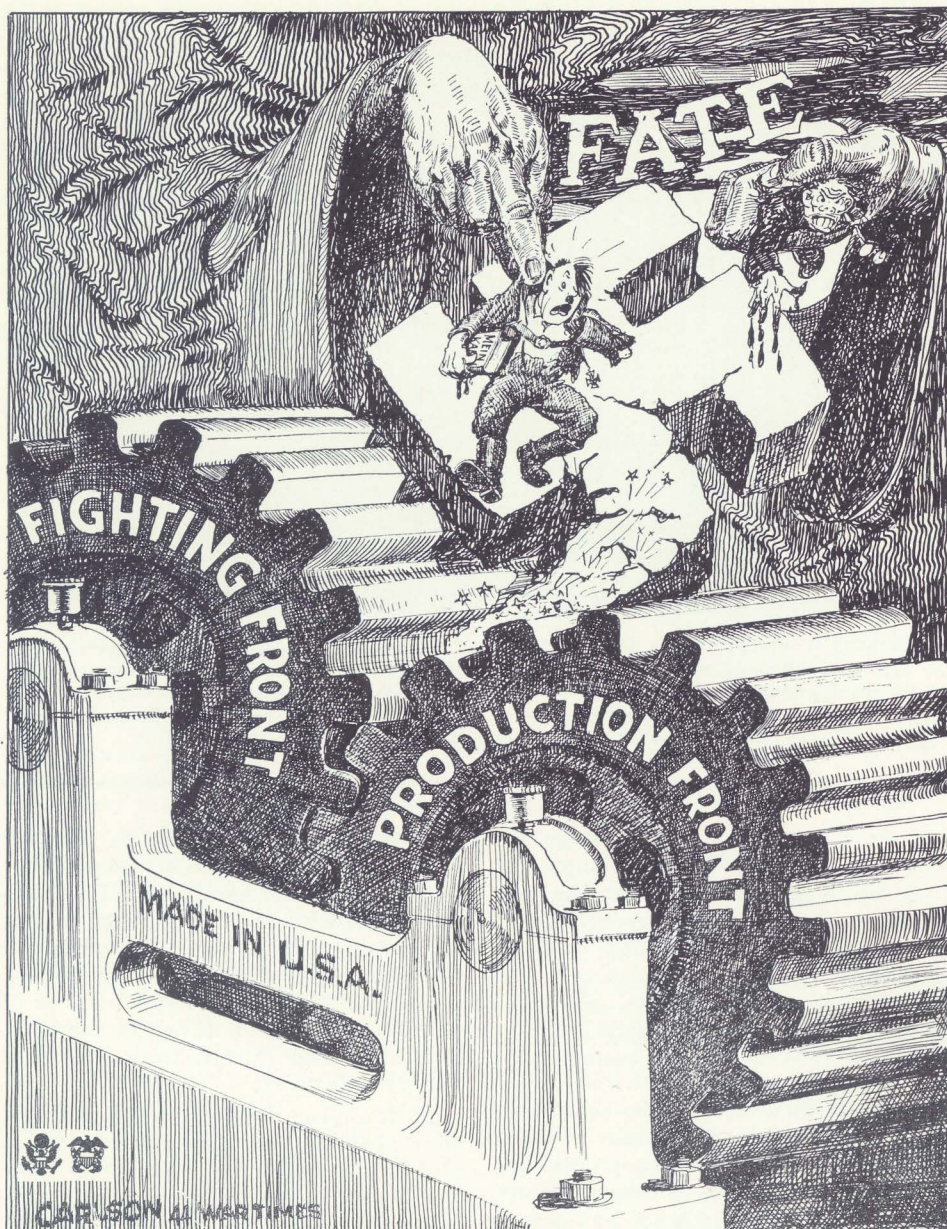
In November, the new 14-Cylinder Cast Harness lines swung into production simultaneously with the distributor head. The entire Aviation building was then being fully utilized and expansion into two other buildings planned. Tool-up on the 18-Cylinder Cast Harness was proceeding at full pace along with the soaring production of coils and fingers. By March, 1943, one year after the first educational trips to Sidney, Behr-Manning's 18-Cylinder Cast Harness line began production and the new Aviation Division was well underway to fulfilling its commitments.

Overcoming the growing pains of industrial youth, war labor shortages, tool shortages, raw material shortages and variations and numerous design changes, the new Aviation Division built its production steadily upward to meet the ever increasing schedules in the months that followed.

Much of the real story of Behr-Manning's work as sub-contractors to Scintilla cannot be told until after the war. Two of its products are yet military secrets and all production figures are banned by the War Department. How well, then, has Behr-Manning done in its war program? If we can assume the second month's production of each product to be a fair starting point for gauging

(concluded on page 16)





## IN HIGH GEAR

### Layout Department

We've been quite active in the way of parties lately. Friday night, June 30th, the Layout gang attended their monthly skating party. A good time was had by all, with plenty of food and lots of prizes to keep everyone in good humor.

Sunday, our Freddie Friedrich had a picnic for the Layout Department at his home in Unadilla. Swimming, boating, and horseshoe pitching were some of the major activities of the day, and we had a pretty swell time. (Please pardon us, but we think we have a darned swell bunch of fellows and girls in our department.)

One of the best things that has happened recently in our department is the fact that, as of this writing, we have exceeded our goal by approximately \$575 in the 5th War Bond Drive . . . of which we are very proud.

Harvey and Andy have been busy in the hay fields for the past two weeks, so things have been sort of quiet.

That's about all for now, so until you hear from us again, so long.

### Department 94

Have you heard the latest? Listen in all ye horseback riding fans! It seems that on a certain Sunday, our own Edna Heerwagon, accompanied by a couple other riders, rode to Rock Inn for dinner. All went well till the return trip. Alas, it poured! The riding party was drenched, in spite of ducking from barn to barn (for that was their route homeward bound). She should get a poncho to meet such an emergency hereafter. And by the way, Edna, what time did you get home?



SGT. GLENN W. GEERTJENS, an aerial gunner in the Marines, has returned to the States and is spending a well-earned furlough with his family and friends. He has been in the South Pacific theater about a year. Sgt. Geertjens was formerly employed in Department 15.

### Please Reclaim Lost Articles

Ladies! Gentlemen! Chief Dickinson's office rapidly is assuming the atmosphere of a hock shop. During the last few months quite a few lost articles have been turned in to the Police, and while some have been reclaimed, the majority are still being held for their owners.

Included in the collection are several compacts, two wrist watches, a fountain pen, several pairs of glasses, pocketbook, tie clasp, cigarette case, gloves, a ring, an Elgin pocket watch, earrings and other articles too numerous to mention.

Undoubtedly, the rightful owners of these articles have forgotten about them, otherwise, they would have called for them long before now. Chief Dickinson will appreciate your calling at the office in the East Guard House if you think any of these articles belong to you.

### Tool Room Notes

Lost: one pig, black and white, answers to the name of Rover. Finder please return at least a loin section next fall—Art Green, Riverside.

Fay and Mead are spending the week at Sandy Pond fishing, we presume. One thing we are sure of . . . they're not having as good a time or catching as many big fish as they will be telling about next week. If those out-board motors are as fast as they say they are, they will probably tell about the cock pheasants they caught while trolling and had to throw back because they're out of season.

The other night we saw Herman Wischhusen's telephone-peas. He has 3 double rows, and they are now 7'6" tall and just loaded. We believe the record in the southern tier this season is 5'5". Herman calls them his Victory Peas.

Fink was laughing at a man and calling him a pessimist because he was holding a piece for drilling in three vises. At the same time, we noticed that Karl was wearing a belt plus a pair of suspenders on his trousers. Now, which one was the biggest pessimist.

Charley Finch had his vacation during that rainy week. He didn't mind the rain so much until the river flooded a spring beside his camp and floated all his beer downstream.

All the boys in the tool room seem to like Wheatena.

### Behr-Manning (from page 15)

volume thereafter, then a comparison of that figure with the peak month's production should give an appreciation of the total volume of production from June, 1942, to June, 1944. Coil production increased 14 times, fingers 3 times, distributor heads over 4 times, tube harnesses 33 times, and cast harnesses, which had never before been made in commercial quantities, are now produced at nearly 8 times the rate of our early output, and peak or near-peak levels have been maintained.

Sandpaper to airplane ignition—quite a metamorphosis.



# HOME GARDENER'S CORNER

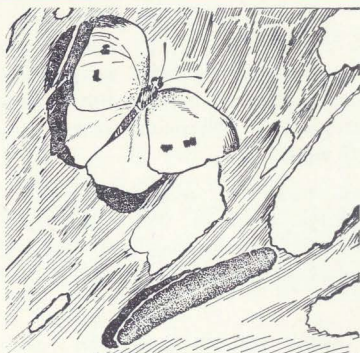
## Open Season on Bugs

Game is plentiful in the vegetable garden these summer days in the form of bean beetles, cabbage worms, cucumber beetles, potato bugs, and other insect pests. It's open season on garden bugs, so out with the dust gun or spray gun, some rotenone, arsenate, or cryolite ammunition, and mow 'em down.



Bean Beetle, Eggs, and Grub

On beans of all kinds coppery-colored, black-spotted, Mexican bean beetles and their spiny lemon-yellow colored grubs, looking like tiny pin cushions, make lace-work of the leaves and chew into the pods. Dust or sprays of rotenone, cryolite, or pyrethrum will put a stop to this but must be applied to the underside of the leaves.

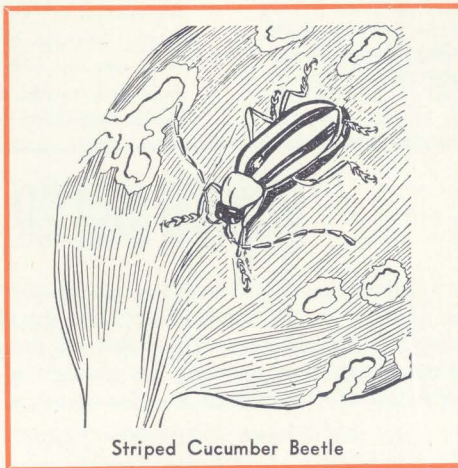


Cabbage Worm and Butterfly

Cabbage and its relatives cauliflower, broccoli, brussels sprouts, kale, kohlrabi, and chinese cabbage are often severely damaged by velvety green cabbage worms which chew holes in the leaves and eat their way into the heads, leaving unpleasant deposits of moist green or brown pellets of excrement. Rotenone dusts or sprays are the best and safest materials to control this pest. They should be directed down into the developing heads and to both surfaces of the outer leaves.

Cucumbers, melons, squash, and pumpkins also need protection from insects and diseases. The small yellow and black striped cucumber beetle and the greenish yellow black spotted cucumber beetles chew the leaves, stems, blossoms, and

fruits and spread disease. Bacterial wilt, mildew, scab, and other diseases commonly cause serious damage. Plants should be dusted or sprayed once a week with materials to control both insects and diseases. Combination dusts containing a fixed copper fungicide with calcium arsenate, cryolite, or rotenone insecticide are effective and are available ready mixed. For spraying, the separate materials are mixed together in the sprayer, or powdered spray mixtures can be obtained.



Striped Cucumber Beetle

Potatoes should have regular spray or dust applications at weekly intervals to control blight and insects such as potato bugs, flea beetles, and leafhoppers. For spraying, either Bordeaux or a fixed copper fungicide is used, with calcium or lead arsenate, cryolite, or rotenone added for insect control. Various ready-mixed spray powders containing copper fungicide with arsenate are available as mentioned under cucumbers. Those sold as "potato mixes" usually have a rather soluble type of arsenical poison which is more effective against potato bugs. These are safe on potatoes but are likely to "burn" more tender plants. For dusting, the combination fixed copper calcium arsenate or fixed copper-cryolite dusts are good for blight and insect control.

Only a few spray or dust materials are needed for satisfactory insect and disease control in the victory garden. A rotenone dust will control most insects and is safe on all plants. A fixed copper dust will control most diseases. In small gardens a combination rotenone-fixed copper dust makes a good general purpose material and is safe on all crops. In larger gardens the best plan is a rotenone dust for beans, cabbage, cauliflower, broccoli, and other leafy vegetables and a combination dust containing fixed copper with calcium arsenate or cryolite for use on vine crops, potatoes and tomatoes where poisons can be used safely and where both disease and insect control is needed.

For spraying, the spray form of the materials mentioned above can be pur-



RICHARD MARBLE, Warrant Machinist, who was a Scintilla employee about 11 years ago, recently stopped in to visit his old friends. While here he worked on Drill Presses and Hand Millers, under the supervision of Carl Kuebler. Marble has been seven years in the Navy, having been stationed at Honolulu for the last five years. He was at Pearl Harbor when the Japs made their sneak attack on December 7, 1941. Three members of Marble's family are now Scintilla employees . . . his father, Ralph, Sr.; his mother, Edna; and his brother, Ralph, Jr.

## Department 81

Production and Coordination teamed up with our Material Control to celebrate the 4th, with an eighteen-page letter and six dollars each for our pals in the Service, first of the series we will continue for the duration.

Some of our early vacationists took a HEAT TREAT to STEEL themselves against the hot days ahead: Sarah Bassell, night-blooming flower of the night gang, went to New York, and so did Jack Holtz. The Gaylords, man and wife, tripped to Washington, but had a week home afterward.

"Bucky" Vroman went fishing up in Quebec, Canada and brought back a nice tan. Mel Haynor is hey-haying it on his farm, and Clyde Hathaway is out . . . we don't know where or what doing.

The hot weather has brought us in a number of new styles in wearing apparel and hair-do's, the strangest being one black shoe and one brown shoe on one man. A very seasonable man! A hair-do can change without notice . . . especially the back-up-sweep which requires a quick neck wash.

Thursday, July 6th, all the gals wore (we hope) three-piece detachable-skirted playsuits. It was discovered that one fetching number depended entirely upon a bow's being tied at the back of the neck. The costumes were a fore-runner of a departmental picnic held that evening.

chased separately and mixed as needed in the sprayer, or combination ready mixed spray powders can be used as discussed above.





By now many of you have seen these water colors which were on display near the First Aid Room in the East Clock Area. The artist is H. H. Dasey, an Engineer in the Methods Department. Mr. Dasey taught Design, Photography and Advertising at Illinois College, Jacksonville, Illinois. He also was associated with "Time" and "Life" magazines . . . as Editorial Production Manager for "Time" and Art Director of the Promotion



Department at "Life." At the opening of the war he was manager of the Reamer Division of the Maydole Company at Norwich, New York. He also was with Ansco at Binghamton before joining Scintilla. According to Mr. Dasey, the incidents portrayed in the paintings were actual happenings in this war. Ideas for their composition were gleaned

## Department 16

George McKeever came in to visit us recently.

Bob Meehan checked out the first of the month.

Clarence Myers left us, too . . . doctor's orders.

And friends of Herbie Eckler and Maurice Sines are asking for them. May we take this way to say "hello."

Our supervisor, Rene Pittet, spent his vacation the first part of June at Cooperstown on Otsego Lake.

We all miss Marie Wright with her cheery smile. She checked out, too.

Casey has been trying to get a chief cook and bottle washer during Mrs. Casey's stay with their daughter and family in New York. Next time try the Barter Column, Casey.

A former department member now with the Army, James Townsend, was married June 22nd to Miss Ellen Dutcher while he was home on furlough from Camp Blanding, Florida. Congratulations.

Carl Rutherford was out for a few days with tonsillitis. You'd better take out special insurance for that bug, Carl.

We all hope Edith Waldron's brief stay in the hospital has left her much improved.

Just a bit of news of former employees in Department 16:

Betty Drake McKown is back in Oneonta after spending several months with her hubby before he went overseas. She was formerly with Casey's gang. And Eleanor Magee, who used to work for Jewell, has a government job in Washington, D. C.

## FOREWARNED IS FOREARMED

Back in 1938 when the cauldron of Hitler's hate was seething hot and boiling over, Herr Schickelgruber kept the world on needles and pins by making good on one threat after another. His habit of predicting dire consequences for a nation, and then proceeding to make his prediction come true, cleared the way for his number one job of eliminating the democracies.

At the present writing the United Nations are rapidly knocking the props from under Adolf's plans for ruling the world. On the surface, at least, we are winning World War II. Actually, the future will determine by whom this war was won. It depends largely upon how well the democracies play their international poker game . . . and upon our alertness to possibilities of another German brain storm.

Following this line of thought, it seems only logical that we refresh our memories on another prediction written by Hitler in 1938. In view of the fact that so many of his "called shots" were played straight, should we not profit by past experience and be ready to thwart the plan which he put into writing as follows:

"A defeated nation can, even better than a victorious nation, be trained and prepared for the day of final victory. It may happen that I cannot win victory at once in this coming war; we may be forced to interrupt it. Then we all will be back underground. We will smile, we will look, we will wait.

"But after some years, when the weak and inefficient democracies will have utterly failed to solve the world's post-war problems, then we will suddenly break loose from underground and our stupefied enemies will discover too late that millions of their own youth, misguided by weak education, disappointed by democracy's failure, will be on our side.

"Victory in this Third World War will be quick and easy. It will be in our pocket like a ripe apple we take from the falling tree of democracy."

This is Herr Hitler's plan for victory. The plan may live on long after Hitler meets his just reward . . . because German youth have been steeped so long in Nazi lies that the "super-race" creed has become a part of their ideology.

Forewarned is forearmed. Our first mistake is excusable. But if we make the same mistake again, then surely we have lost the legacy of freedom passed on to us by the gallant men of '76.



★  
SGT. DONALD BABBITT, right, now overseas, was employed in Department 34 while at Scintilla. Above photo of him and his buddy was recently sent in by Don.  
★



★  
WILLIAM LAWSON, S I/C is now at Treasure Island, California, where he is studying Secondary Radio at Radio Material Base of the U. S. Navy. He is a former Department 19 employee.  
★



★  
CPL. OMER HOLLIDAY, of Department 23, is now stationed at an Army Base at New Orleans, La.  
★





from news stories and photos. From left to right in the above group, incidents portrayed are: (1) Execution by hanging of the Town Council in a Polish village . . . a typical example of Nazi reprisals against conquered peoples who dared to oppose the "master race." (2) A common sight during the obliteration of Lidice . . . when the Nazis destroyed the population of the town in retaliation for the killing of a few Germans by the



town's people. (3) Another instance of "master race" brutality. The Nazis forced Czecho-Slovaks to dig a huge pit, then mowed them down with a machine gun and buried them in the pit. (4) A Marine, captured by the Japs, flounders helplessly in a South Pacific jungle after his eyes and tongue had been cut out.

## "SWEAT AND PRAYERS"

Because of the speed and efficiency of our news-gathering and distributing services we, on the home front, hear of the progress of our fighting forces a few hours after actions on the major battlefronts of the world.

Our fighting forces, however, are not always so fortunate. Often days and weeks elapse before thousands of our boys in fox-hole, desert and jungle know what is going on at home and in other parts of the world.

But the home front is doing everything possible to keep the boys informed. Letters from home by the tens of thousands go to the boys every day. Thousands of company publications are sent to them by the management and employees of hundreds of U. S. war production plants.

In addition to these intimate links with the home base, huge posters issued by the armed services appear periodically in every U. S. camp on our own and on occupied soil, and on every U. S. battlewagon, cruiser and destroyer on the sea. These illustrated bulletins tell the boys "out there" what is going on "back here."

Here is the message that is contained in one of these bulletins prepared and distributed by the Army Information Branch of the Army Service Forces, 205 E. 42nd St., New York 17, N. Y.

### Memorandum for the Armed Forces Subject: "Home Front Production"

1. "Attention is invited to the facts and figures on home front production submitted herewith for your approval.

2. "The numbers mean that the United States is turning out more equipment than all the rest of the countries in the world combined.

3. "The vast numbers are only part of the story. They are the result of the sweat and prayers of millions of men and women on the production line. That line now in-

cludes boys and girls working after school, housewives who place their children in well-supervised day nurseries while they are at the plants, and men and women who have come back out of retirement to bring the end of the war closer.

4. "The job on the home front is to produce, transport and distribute. Most of the folks at home do that job with the same loyalty and energy as you fight with overseas."

The following production figures which should make every loyal American producer swell with pride are given in this bulletin:

**Guns**—from Jan. 1, 1942 to Jan. 1, 1944, U. S. produced 424,000 pieces of artillery. That means 580 guns a day over the two-year period. During 1943 we were turning out an M-1 rifle every 32 seconds, a machine gun every 34 seconds, a sub-machine gun every 38 seconds and a carbine every 51 seconds.

**Shells**—during the two years ending Dec. 31, 1943, U. S. turned out 1,160,000,000 rounds of artillery ammunition. We have amassed a stock pile of bombs large enough to supply our bombers for many months.

**Ships**—in 1943 U. S. produced 19,000,000 tons of merchant shipping—one ship every five hours. Through new construction of warships we doubled our fighting fleet in 11 months of 1943 and in a single month turned out as much warship tonnage as in the entire 18 months before Pearl Harbor.

**Planes**—U. S. turned out more than 9,000 planes in March, 1944. Our production in one month alone is almost equal to the estimated first-line strength of Germany and Japan combined. A new plane rolls off the assembly lines every five minutes, day and night seven days a week.

**Vehicles**—in 1942 and 1943 U. S. factories turned out 1,200,000 military

Now undergoing training at the Cherry Point, North Carolina, Marine Base is Cpl. *Salvan Kelly*, a former Packing Bench employee.



PVT. **KENNETH THRASHER**, of Department 57, is now stationed with a Railway Operating Battalion at Camp Robinson, Ark.

Reported as wounded in action on D-Day is Cpl. *George W. Collins*, former Department 38 worker.



trucks and 148,000 tanks and other combat vehicles. A new truck was completed each minute during the entire two-year period. Our production was enough to supply transportation at one time to the whole Army, six men to each truck.

### Doing Their Share

"This is the work of your sisters and brothers, mothers and fathers, sweethearts and friends," says this bulletin. "They are the home front workers. They want to get the war over in the shortest possible time. They want you home safe and whole. To do it they are turning out equipment at a rate never before equalled in the history of our country. They are doing their share to win the war."



# BARTER COLUMN

FOR SALE: Essotane Table Top Gas Range, like new, also occasional chair, other chairs and general household articles. Lynn VanOrsdale (2-62) or Unadilla 3801.

FOUND: Bulova wrist watch. Owner may have same by identifying watch to Edwin Haynes, 44-52.

FOR SALE: 8-room house, running spring water, electricity, barn and about 3 acres of land, on outskirts of Franklin, everything in good condition. Ferris Edwards, 74-9 (seven to six shift, days) Ext. 444.

FOR SALE: Complete set of Rogers silver, initial E, never used; also six extra salad forks; twelve large dinner napkins, hand-hemmed; 23-Jewel Waltham watch, size 16, perfect timer; .303 Savage rifle, 99 model, full octagon bbl., Lyman peep, rear sight, shells; mahogany davenport and other antiques. H. S. Emrich, 17-34.

FOR SALE: Registered Pointer bird dog, "Mike the Miller," six years old, well broken to pheasant, natural retriever, reasonable price. Ext. 209, or Sidney 5741.

FOR SALE: Farm, 168 acres, 30 acres woods, never failing spring water, electricity, 2 family house, large basement barn, garage, silo, etc., 1/2 mile from center of town of Edmeston. Helen Anderson (23-1406), 1st Shift, or call Edmeston 2694.

FOR SALE: 3-burner oil stove with long legs, new. Cora Landers, Town Hall, Ext. 299.

FOR SALE: Conn trumpet with case and attachable music holder, gold color, like new. Ed Beckwith, 26-154.

FOR SALE: Practically new straight gas stove, equipped with bottled gas burners, white porcelain with four burners and heat controlled oven. Will exchange for combination coal and gas range with hot water front and burners for bottled gas; also, Zenith Universal Portable Radio, either 1 1/2 volt or 110 volt, with wave-magnet. S. C. Langworthy, 23-717, 2nd Shift, Edmeston, N. Y.

FOR SALE: 38 special revolver, holster and ammunition. Bob Stafford, 23-175, Line 34, 1st Shift.

WANTED: Small ice box for camp use. Cora Landers, Town Hall, Ext. 299.

WANTED: Steam radiators and a stoker or oil burner. Bob Stafford, 23-175, Line 34, 1st Shift.

WANTED: Chenango camp trailer. Madeline Hazard, 15-15.

WANTED: Old coins and bills of any description. Jack DeTemple, 6-79.

## Cost Control Chatter

We are very glad to welcome Dot Howard back after a painful seven-week battle with the Sciatic nerve. She still has some treatments to take, but she is used to having her leg pulled.

Cost Control has gone after the new Methods Engineering course in a big way. Everyone is enthused about the course and the way it is being presented by Prof. C. I. Milliard of Cornell University faculty.

Softball has lagged slightly during the last two weeks, due to the fact that our scheduled games fell on class nights. However, since our last issue, we played two games, getting an even break by losing to the Bainbridge aggregation, 12 to 2; and winning from the Demons, 10 to 5. We have postponed games to play with Sherwood Heights and Aikens Tigers. With the acquisition of Haskell and O'Neil, we present a formidable club worthy of any competition.

Jerry Alt became the proud father of a 7-lb. baby girl June 22nd at the Sidney Hospital. Nancy Jo and Mrs. Alt have come along nicely, but Jerry is still in tough shape.

We are digging right into our vacation schedule, and as we go to press we hear that:

Louie Albina practically rebuilt his house in two weeks.

Norman Chow was able to get to Philadelphia and New York, where he spent some time with his sister and family.

Paul Ineich journeyed to his former home, Syracuse, New York.

Helen Benjamin enjoyed herself at Faulkner's on Long Island.

Mary Jerauld spent her first week at home getting ready for her second week, which was spent in the neighborhood of Racquette Lake.

Bob McCauley and George Campbell put on a two-man invasion of Canada for their first week. From all reports, the pike and bass repulsed their attack with slight losses. The invaders withdrew in an orderly manner with a few prisoners. They were well tanned from their experience.

Genevieve Townsend spent her first week getting a much needed rest at home.

Don Green and the Missus took in New York City for a week.

Carl Kiff did a little Green Gardening for one week and spent the second week at Goodyear Lake.

We were somewhat embarrassed to find it necessary to call Audrey Tompkins back during her first week, but she has another one coming shortly, which she plans to enjoy in the Catskill Mountains.

Zula Hovencamp spent one week at home with "Billie," but plans to spend her second week making a tour of the hot spots.

Lefty Mauro rested up during his first week at home, and the second week tried to knock himself out at a northern Pennsylvania Lake.

Norma Mahoney blitzed New York City for a week.

Phil McWilliams journeyed to Pittsburgh.

Joe Morley took in Albany, New York City and Saratoga.

Lu Carmen visited Washington, D. C. and Virginia.



Dot Howard made things lively around Goodyear Lake for a couple of weeks.

Lillian Roy took a trip "Way Down East" with Russ.

After seeing "Four Girls and a Jeep" at the local cinema, Ginny Hartwell and Eleanor Moody became "Two Girls with a Squeal." They decided to give Keesler Field in Mississippi a break, seeing that Ginny's husband is stationed there. Since their return, neither Keesler Field nor the girls can get back to normal.

Jim O'Neil spent his time between Schenectady and the Atlantic shore around Newport, R. I.

To our Service Stars:

Elmer Dann was in town for a week following the completion of his first cruise. He has his first campaign ribbons and is as enthusiastic as ever about our Navy.

Joe Roberts should be home from Sampson as this is released.

Currie is still needling the boys at Sampson.

Everyone has the same to say . . . "they love it" . . . and with that spirit it's easy to see why the Jap Navy is so hard to find.

Latest word from Harold Uhlig was from Omaha, Nebraska enroute to Pearl Harbor.

We have no other information to date from the rest of our service men.

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EDITOR: P. J. DU BOIS

ASSOCIATE EDITORS

K. V. Campbell

Bruce McGregor

Contributors:

The employees of the  
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