



Posing for our School Safety Cover are Donald, Enid and Jean Brennan, children of Mr. and Mrs. C. J. Brennan.

Photo by Norman C. Meagley

* MILLIONS FOR UNCLE SAM

Since November 1, 1941, the first date of payroll deductions at Scintilla and a month before Pearl Harbor, Scintilla employees have bought a total of \$3,729,602.50 worth of War Bonds, or an amount representing a potential buying power of nearly five million dollars. In addition to sending regular weekly remittances to Uncle Sam, Scintilla workers, remembering their former associates who have gone into the service, and their hopes for a better future, have exceeded their quota for each of the five War Loan drives.

To get down to figures, the average number of people deducting for the month of July was 97.41%, while the deductions equalled 8.17% of salaries paid. Many departments consistently subscribe 100% and are deducting the suggested 10% of salary.

From the Sidney Bank each week, there arrives with the Payroll at one of the Scintilla gates, the famous "Bond Boxes" containing, at present, on the average of 1,100 Bonds, with a cash value of approximately \$25,000. At the peak of buying, about 1,500 Bonds were issued weekly while the check to the Federal Reserve Bank would be perhaps from \$28,000 to \$35,000.

Several machines are required in the work of issuing the Bonds accurately and

on time. At first, Bonds were typed by a group of ten stenographers. The Bond Department now has an Addressograph for running the Bonds, two Sunstrand Accounting Machines for posting deductions, a Graphotype Machine for cutting Bond plates, and a Sunstrand Adding-Figuring Machine for quick balancing of accounts. A force of five people now mans the department. Using the Addressograph, as all government agencies do in handling large quantities of Bonds, speeds up the work and entirely eliminates proof-reading. This same machine also prints the voucher used for checking, the delivery lists furnished the clerks, and the familiar receipts clipped to the Bond envelopes.

Mailing service is maintained for subcontracting inspectors, the New York Engineering office and subscribers who are ill. Whether an employee is stationed in Weedsport, New York; Dallas, Texas; San Diego, California; or merely sick in Burlington Flats, he will receive his Bond promptly by registered mail from the Scintilla Magneto Division.

Observations indicate that Scintillites are enthusiastic about post-war continuance of the payroll deduction plan. Following the maxim, "When in Rome, do as the Romans do," makes saving automatic, and at the same time does away with that harried pay-day trip to the bank. Cashing of Bonds, Series E only, will soon be made easier by the Government. Beginning October 2nd, a person may receive his money immediately upon application and proper identification at any authorized bank. Save in Bonds . . . help your country and yourself.

Save a Life...Drive Carefully!

Despite the fact that millions of words have been written on the subject of Safety, accident statistics prove conclusively that much still remains to be done . . . especially in the field of traffic safety.

With the opening of school and the accompanying increase in the number of children traveling the streets and highways, it is imperative that we remind ourselves of the urgent need for extra caution in our driving habits.

If you are a parent, you are no doubt well acquainted with the little twinges of fear that assail you as the youngsters dash out the front door, bound for school. Will they come back safe and sound . . . or will an automobile bring injury, perhaps death, to one of them before the day is over?

It is common knowledge that children act under sudden impulses. No matter how well grounded they may be in the rules of street or highway safety, they are apt to become forgetful under the stimulus of play. For example, following a ball into the road may mean disaster for a youngster if the approaching automobile is in the hands of a careless or un-alert driver.

When you are involved in an accident resulting in tragedy for a child, there is little consolation in the fact that it was entirely unexpected and that you are judged free from blame. Your sub-conscious mind will retain the memory of the event, drawing it forth at intervals to torture your conscience and invade your dreams.

In 1943 nearly a third of the 6,650 accidental deaths of school children, ages 5 to 14, resulted from motor vehicle accidents. This is an authentic report from statistics of the National Safety Council.

When you get behind the wheel of your car, put yourself in the place of the father or mother whose child will be injured or killed if you fail in your responsibility as a driver. Not a very pleasant thought, is it? But if merely thinking about it makes you uncomfortable, judge for yourself how you will feel if you actually are a principal in such a tragedy.

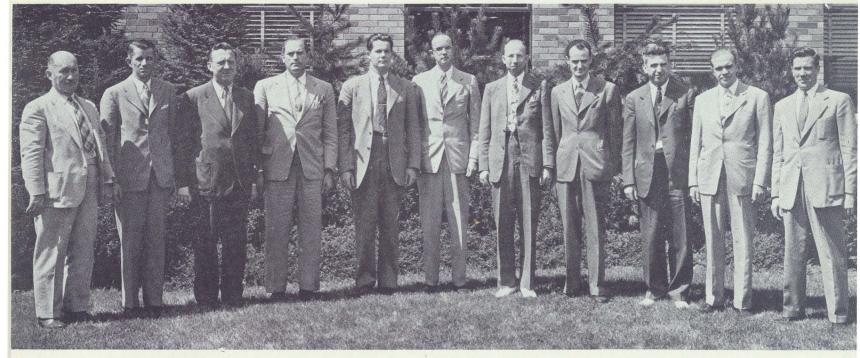
Under the circumstances, the wise procedure is to expect the unexpected, and to drive in such a manner that your car will always be under complete control.



Another Egnaczak! This time it's T/5 Joseph Egnaczak, formerly of Department 28. He is now somewhere in Italy, where this snapshot was taken.







The Engineering Department of Scintilla Magneto Division acted as host to the above group of engineers who met here on August 25th. The group, representing our eastern divisions, comprises the Materials Committee of the Bendix Engineering Conference, organized for the purpose of discussing materials and determining specifications for use in various Bendix products. L. to r.—N. E. Woldman, Eclipse-Pioneer; H. L. Spencer,

Bendix Radio; R. L. Nolf, N. Y. Office; S. S. Kingsbury, Philadelphia Division; R. G. Clark, Friez Instruments Division; P. R. Marvin, Marine Division; K. H. Fox, Radio Division, Redbank, New Jersey; A. C. Quinn, Detroit, Research Laboratory; R. C. Pocock, Bendix Products; F. A. Root, Scintilla Magneto Division; W. A. Willis, Bendix Radio, Baltimore, Photo by Norman C. Meagley

FREE COURSES SCHEDULED

The Training Department, through the courtesy of Cornell University, has been able to arrange for the following courses to be given by Cornell professors during the fall and winter. The courses are free, are held once a week from 7:00 to 10:00 P.M. for a period of 15 or 16 weeks, and will be given in the Training Department classrooms at Scintilla, or in the Sidney Central School. The term will open the week of October 9th, the exact day to be announced later.

Plastics and plastic molding (application list still open), to be given at the Sidney Central School; course content: Types of plastics, mechanical and physical properties, principles of molding and

design, machining and finishing, phenolic plastics, urea plastics, acrylic plastics, polystyrene, vinyl plastics, cellulose acetate laminated plastics, plywoods. Electron tubes and their industrial applications (application list still open), to be given at Scintilla; course content: Electron emission, conduction through vacuum; gaseous conduction; construction and operating characteristics of electron tubes; amplifiers, rectifiers, inverters, relays, welding control devices, measuring devices. Production control (application list closed), to be given at Scintilla. Materials testing (application list closed), to be given at Scintilla.

For further information call H. L. Cook, Supervisor of Training, Ext. 424.

CPL. ROGER D. POTTER is stationed with the 15th Air Force in Italy. Before entering the service in December, 1942, Roger was employed in Department 16 at Scintilla.

Do You Know-

That every minute of the day and night somebody's home or place of business in the United States is destroyed by fire?

That careless smoking and disposal of matches causes more than one-fourth of our dwelling fires?

That many people who are killed by fire have no burns on their bodies but die from inhaling fire gases?

That fluids labeled "non-explosive" are not necessarily "non-inflammable"?

That about a third of the fires put out by municipal fire departments are put out with hand extinguishers?

That if America's farm fire losses could be reduced by 50%, 1,750 lives would be saved each year?

E. M. Van Name Appointed to New County Planning Commission

Announcement has been made of the appointment of E. M. Van Name, Director of Industrial Relations, to membership on the newly formed Delaware County Board of Supervisors Planning Commission.

The Commission consists of ten members selected from different areas within the county. Its function is to study various problems pertaining to the general welfare of the county and to make appropriate recommendations to the Board of Supervisors. Problems relating to farming, employment, roads, taxation, and others of major importance will be studied by the Commission.

Mr. Van Name also has been appointed as Sidney Area Representative on the Committee for Economic Development.



CHARLEY SITTS, S 2/C, left Scintilla in June, 1944 to join the Navy. He worked in Department 80 while employed here.







Editor's Note: This is the second article in our new series of stories about Scintilla's sub-contractors. The article was written by P. A. McGuire of I.P.C. Photos likewise are published through the courtesy of I.P.C.

A splendid article has already appeared in The Scintillator, outlining how carefully the Scintilla Magneto Division selects sub-contractors, and giving many details of the negotiations prior to acceptance. International Projector Corporation negotiations followed similar lines, and it seems unnecessary to give any additional information of this nature except to say that Mr. John F. Campbell, Plant Manager, made many trips to Sidney and fully discussed the subject with Mr. Clifford Brennan, a fellow member of the Society of Industrial Engineers, of northern New Jersey, and now Assistant General Manager of the Scintilla Magneto Division.

After further discussion between Mr. E. G. Hines, President, who incidentally was associated with Mr. Herman Hanni, General Manager of Scintilla Magneto Division, back in the days when Scintilla was a subsidiary of the American Brown Boveri Electric Corporation, Mr. A. J. Palmer, Executive Vice President, Mr. E. L. Worfolk, Controller, and Mr. Campbell, contracts were signed and the International Projector Corporation became a sub-contractor of essential war materials for Scintilla Magneto Division. As manufacturing methods, in a general way, are somewhat similar in both plants, this article will be confined to telling why a manufacturer of motion picture equipment became a sub-contractor for the Scintilla Magneto Division.

Glamorous Hollywood keeps the public well informed regarding the making and taking of motion pictures, but putting the picture on the screen . . . projection . . . is much less well known. Nevertheless, projection is very important as it is the final delivery to the public of all the work of the great motion picture industry. From the portholes way up at the top and back of the house, the projectionist with his projection equipment puts the picture on the screen. Poor projection can mar

the finest picture. Good projection increases the entertainment value of motion pictures which every day add to the happiness of millions of patrons of motion picture theatres.

The story of the early days of the International Projector Corporation is much the same as that of other Scintilla subcontractors, and most of the great manufacturers of this country. It is a record of small beginnings, of tiny shops, dreamers and inventors, and very often



EARLE G. HINES, President

just plain mechanics working under adverse conditions with the simplest tools, solving the basic problems of a great industry... finding the "bugs" and taking them out. The International Projector Corporation, through its merged companies, is the oldest and largest manufacturer of standard professional 35 millimeter motion picture equipment in the world. For over forty years, a period covering practically the entire history of the motion picture industry, the International Projector Corporation has held an outstanding leadership in the manu-

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A. J. PALMER, Executive Vice-President



JOHN F. CAMPBELL, Plant Manager



E. L. WORFOLK, Controller

I. P. C. (from page 4)

facture of 35 mm. projection equipment for motion picture theatres and all departments of the motion picture industry.

In this highly specialized field, ours has been the responsibility of developing, as well as manufacturing, projection equipment for an industry which is highly artistic but also greatly mechanical . . . interpreting human emotions by mechanical means. It has been said that "back of the artistic side of the motion picture

industry is a vast, technical field whose work offers infinite opportunities for flaws and failures." The growth of the motion picture industry was tremendous, rapid, and sometimes revolutionary . . . as when sound was introduced almost overnight.

Through all the years thousands of ideas . . . good, bad and indifferent . . . have filtered through the International Projector Corporation's shops to be rejected or accepted. This is, of course, the experience of every great manufacturing

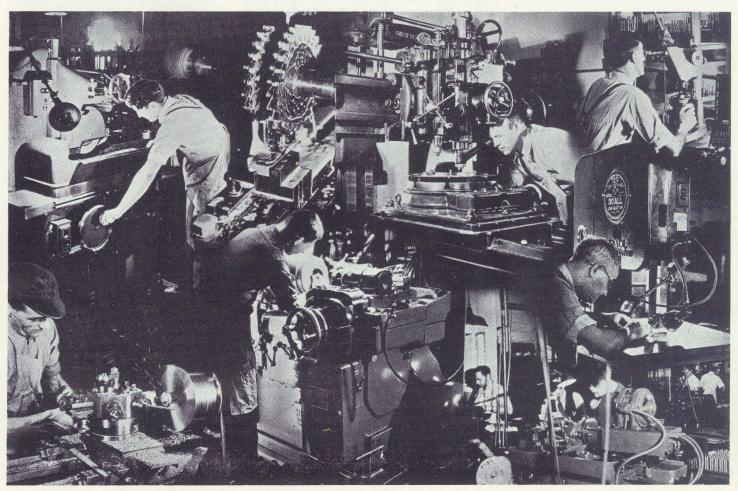
company, as ideas must be made financially as well as mechanically practical. Step by step, as the motion picture industry advanced, the company has been called upon, through its exceptional facilities, to meet the demands for new and better motion picture entertainment. It has been our task to pioneer every inch of the way.

Connected with the early days of the "tiny shops" in which I.P.C. products had their inception were the men who first

(continued on page 7)

Typical of the many and varied precision operations necessary in the production of projector equipment, are the several machine "shots"

combined in this photomontage. It also shows that modern machinery is of vital importance where precision is imperative.



for SEPTEMBER

SAFETY SLANTS

We bring to your attention this month two items that deserve your serious consideration. First, the 20th Annual State-Wide Accident Prevention Campaign sponsored by Associated Industries. The campaign begins October 1st and ends December 30th.

Industries competing in the campaign will issue weekly accident reports to Associated Industries, and each industry will in turn receive a report of the total standings each week. These reports will be posted on the plant bulletin boards.

Yes, you guessed it! We've tossed our hat into the ring! Let's pledge ourselves NOW to do our utmost toward working safely. Every lost-time hour resulting from an accident during the campaign period will be a black mark against us. We're in to win . . . so let's go, safe workers! Watch the bulletin boards for further announcements regarding the campaign.

The second matter of importance is National Fire Prevention Week, which will be observed October 8th-14th. This period serves as an annual reminder to search your home for fire hazards, and to eliminate them before they have a chance to start a fire. In the adjoining columns on this page is an illustrationquiz which will help to emphasize the fire danger points in your home.

Richard E. Vernor, President of the National Fire Protection Association, has this to say about fires:

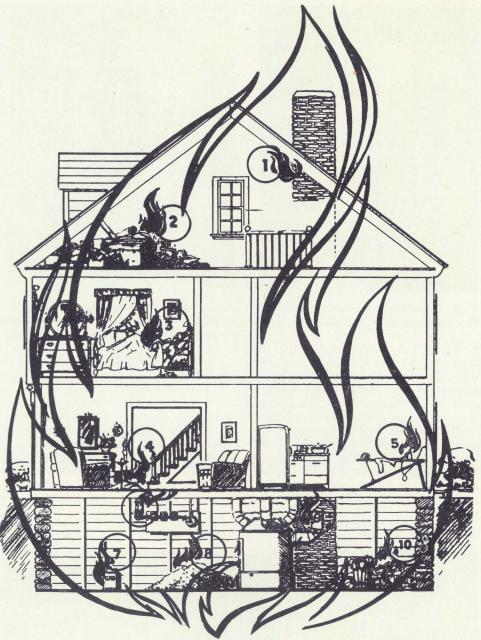
"Never before has the importance of fire prevention seemed more apparent. Fire deaths and injuries increase the manpower shortage. Industrial losses destroy critical materials and products of every description vital to the war effort. Mercantile fires complicate the rationing problem, and dwelling losses put a further strain upon an already burdensome lack of adequate housing in many localities. The whole miserable business of fire waste can be greatly curtailed if each person will accept his or her responsibility to eliminate the widely known common fire hazards, for the records indicate that they cause most of the fires. We must all create and energize the continuously alert fire consciousness, for the easiest way to control fires is to see that they don't start."





former employee in Department 22 at Scintilla, Fernley W. Cole, F 2/C, has been stationed in Hawaii and is now on duty on the U.S.S. Almaack.





Courtesy of National Fire Protection Association

What caused the ten fires in this home? Four points for each one you answer correctly. Jot down your answers in the spaces below, then turn to page 9 and check with the right answers.

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Now! Can You Answer These Questions?

- What is the cardinal rule of fire prevention?
- How many deaths occur from home fires each year?
- 3. By whom should defective wiring be replaced?
- 4. Do you know where the fire alarm box nearest your home is located?
- 5. How many home fires are there each year?
- 6. Whose advice would you get before purchasing a fire extinguisher?
- 7. How much damage have forest fires been known to do in one week?
- 8. How often should your chimney be checked for defects?
- 9. How should rubbish be disposed of?
- 10. What flammable liquid has no place in the home?
- What is the largest single common cause for fires each year?
- What type of material should you use when re-roofing? Turn to page 9 for correct answers.

I. P. C. (from page 5)

operated the projectors in the Eden Musee on 23rd Street, New York City. The Eden Musee showed pictures in the spring of 1896, and was the first place of amusement in this country to permanently install motion picture equipment. Following the Eden Musee were other pioneers who first showed motion pictures, and then came the hectic days of the "299-seat" houses which showed pictures in stores or any other place they found available. From these very crude little places emerged the theatres specially built to show motion pictures, and eventually came "the million dollar deluxe theatres" and the large circuits of today.

Through all these stages it has been our task to see that motion picture equipment was made in adequate quantities and promptly delivered in the United States and Canada, and even throughout the world, in order that theatres might open on time and be kept operating at all times without interruption. At one time 90% of America's theatres were using our products, and even under present conditions we are supplying twice as many projectors for theatres as all other manufacturers of similar equipment combined. In addition, we have manufactured thousands of projectors for the services as well as vast quantities of essential precision war material for our armed forces.

Indicative of the high quality of our equipment is the fact that every theatre on Broadway, New York, uses our projectors. This, of course, includes such theatres as Radio City Music Hall, The Roxy, The Paramount, The Strand, The Capitol and all Loew Theatres. I.P.C.

products have held an unquestioned outstanding leadership wherever motion pictures are shown and enjoyed. In New York, Chicago, Los Angeles, London... the great cities of the world... and on all continents, Simplex Projectors are installed in the largest and finest motion picture houses. The projectors manufactured by this company are in the great studios and laboratories and in thousands of rural communities as well as in the larger cities, wherever superior projection is necessary and dependability essential.

Improvements have been made as required and will continue to be made but basic mechanical excellence is fundamentally responsible for Simplex superiority. I.P.C. manufacturing standards, originated and established in this field by us, play a most important part in maintaining Simplex leadership. These manufacturing standards are responsible for our selection as a sub-contractor. The Scintilla Magneto Division, after thorough investigation, found that the International Projector Corporation was fully equipped to manufacture precision parts on an adequate and dependable scale.

A few details may explain why precision parts have been a fixed requirement in the manufacture of Simplex equipment. Precision parts are absolutely necessary to prevent wear on the film as it passes through the projector, to minimize hazards, and to reduce unsteadiness in the picture when placed on the screen.

If the motion picture film were shown uninterruptedly there would be no effect of motion . . . simply a blur . . . because each frame (picture) is shown for a brief period and changed at a very rapid speed. The film therefore is stopped momentarily,

and running at 90 feet a minute (standard projection speed), 16 pictures a foot, 1440 frames are shown every 60 seconds. Each time a change is made the light and picture are shut off from the screen and the next picture moved into place. For each frame four-fifths of the entire period is used for presentation on the screen and one-fifth to make the change. "Persistence of vision" is the scientific explanation of the mental retention of each picture long enough to make the change, and through the slight alteration of the action shown in each frame an illusion of motion is created. The number of frames (1440) shown per minute and the fact that only one-fourth of each period is allowed for change indicates that the change is made in one five thousand, seven hundred and sixtieth part of a minute (1/96th of a second). Only a precision instrument can do this safely and depend-

Moving the film from the upper magazine down through the mechanism, before the light, and through the soundhead into the lower magazine requires a number of ingenious devices. A few words regarding the soundhead may be interesting. About fifteen years ago photographic sound replaced sound-on-disk in motion picture theatres. Simply expressed, photographic sound is first recorded in the studios and then reproduced in motion picture theatres by the soundhead which is a highly sensitive precision instrument. In the studios, when recording, the elaborate recording instrument operates by a microphone which functions somewhat as the diaphragm in a telephone

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Photo below presents a group of International Projector Corporation staff members who played active parts in setting up the "machinery" of producing aircraft ignition equipment on a subcontracting basis with Scintilla. Front row, I. to r.—E. Lyde, Accounting; H. Heidegger, Inspection; R. Milani, Production; J. Beck, Purchasing; W. Meyer, Production;

H. Schley, Accounting; H. Whitington, Production Foreman. Back row, l. to r.—A. Borden, Accounting; J. Kuenzig, Production; W. Gibbons, Accounting; C. Seaholm, Production; E. Berg, Subcontracting; F. Mayer, Production; J. Dokulil, Tools; W. McManus, Production Control; W. Sabo. Production.





Official Army Air Forces Photo

Chinese laborers survey one of the mammoth Boeing B-29's now pounding away at the industrial heart of Japan. On some fields 72,000 Chinese workers are supervised by two U. S. officers and three enlisted men.

I. P. C. (from page 7)

where sound causes a variation in electrical impulse. When recording, this impulse greatly amplified, actuates a valve (there are different methods) and allows minute streaks of light to register photographically on a very narrow channel at the side of the film.

The film running through the soundhead, passing a tiny exciter lamp, influences a photo-electric cell which changes light to electricity in varying degrees, according to the nature of the sound. This electrical impulse is conveyed to tubes . . . as in radio . . . is greatly amplified, and finally carried over a cable from the projection room to a loud speaker which hangs back of the screen. In this way, the original infinitesimal sound is amplified millions of times and presented to audiences in an almost exact reproduction of the original tone and shading. This intricate and delicate mechanism moves the extremely fragile and inflammable film at a very rapid rate, without any danger or difficulty, if the equipment is properly designed, manufactured, kept in correct condition and operated by a competent projectionist.

Simplex parts are made of the finest material, scientifically selected, and measurements of one ten-thousandth of an inch have been manufacturing standards for certain parts during the past twenty-five years. All parts in the Simplex Projector are held to close tolerances and there are excellent reasons for this. As a further explanation of Simplex precision, we wish to call attention to the fact that each of the frames (pictures) is less than an inch wide and three-quarters of an inch high, and when shown on a screen 16 feet wide by 12 feet high there is an enlargement of 55,296 times. Obviously any unsteadiness would be greatly and annoyingly magnified. If the parts are poorly made or worn too much, unsteadiness develops which can reduce the enjoyment of patrons of motion picture theatres and even be harmful to the eyesight if conditions are too bad. Many years ago the International Projector Corporation realized that measurements must be very exact and materials just right. This precision and care are, therefore, the reasons why Scintilla selected I.P.C. as one of its sub-contractors in the manufacture of magnetos and parts for its highly essential precision war equipment program.

The "pioneer shops" of our merged companies have, over a course of years, become a large plant and the International Projector Corporation is the largest manufacturing organization in the lower part of Manhattan Island. It is a short distance from the City Hall on the east side of the city and just below the famous Brooklyn Bridge.

As with all well known established companies the passing years brought changes, and in 1936 Mr. Earle G. Hines. now President of General Precision Equipment Corporation, (the parent company) became President of International Projector Corporation. Under Mr. Hines the business has been greatly expanded and its manufacture of motion picture equipment includes the internationally known Simplex Sound Equipment. More important, however, was his realization that the I.P.C. was particularly well fitted to manufacture any precision parts and instruments and long before the fateful day of December 7 in 1941 our company had done much work for Carl L. Norden, Inc., manufacturers of the Norden bombsight. The foresight which induced the present management to engage in the making of precision parts for other concerns became strikingly advantageous upon the declaration of war. Through the affiliated Bludworth Company, International Projector has supplied the government with large quantities of direction finders, underwater signalling instruments and other marine instruments.

Please! PLEASE! PLEASE!

Our departmental volunteer correspondents are doing a swell job of turning in to the Scintillator the reports of their departmental happenings . . . a job which is sincerely appreciated by the people who are responsible for converting it into type.

But we have a little "gripe" that we'd like to get off our chests. It's this way. Very frequently we find it necessary to check up on an item that has been sent in . . . and find ourselves behind the well-known eight ball. Why? Because the departmental correspondent neglected to sign his or her name and clock number.

So in the future, give us a break, folks. It will help us a lot if you'll just add a line on your copy sheet somewhere: "Reported by, clock no..., Shift"

Then we'll know who to contact should occasion arise.

Closely associated with Mr. Hines are A. J. Palmer, Executive Vice President of International Projector Corporation, Mr. Campbell, and E. L. Worfolk, Controller, and under this able management the personnel has been greatly increased, new buildings purchased and equipped, and an Engineering Department, under the direction of Mr. H. Barnett, was organized, which has proved fully competent to handle the many serious problems brought about by war conditions. It is never remotely possible to give credit to the many individuals who have contrib-

(concluded on page 12)



In last month's Scintillator, S/Sgt. Richard O. McCarthy was listed as missing in action. Since then his mother, Mrs. Russell J. Hood, has received official notification that he was killed in action in France on April 25, 1944. He was sent to England in January of this year, at the end of his training period in this country. On March 31st, he received the Air Medal for meritorious achievements on bombing missions over enemy-occupied Europe. In a letter written April 24th, a day before his death, he wrote that an Oak Leaf Cluster had been added to his Air Medal. He was formerly employed in Department 26.



Ist LT. FRANK TRINDER, left and T/Sgt. Walter Trinder, brothers, were employed at Scintilla in Departments 6 and 63, respectively. They are now both stationed in England in the Air Corps, Frank as a navigator and Walt as an aerial engineer. Both boys were born in England and left the country while still young. They had never returned until both, by some coincidence, were shipped to England. They have been able to visit many relatives living in England, including their grandparents. The brothers are stationed a short distance from each other and are able to get together often. Photo was taken on one of their "get-togethers."

Answers to "Fire Hazards in the Home"

- 1. Defective chimney.
- 2. Rubbish in attic.
- 3. Smoking in bed.
- 4. Careless smoking.
- 5. Careless use of electric iron.
- 6. Faulty fuse.
- 7. Gasoline in home.
- 8. Accumulation of ashes.
- 9. Defective flue.
- 10. Rubbish in basement.

Answers to "Fire Defense Oniz"

- 1. Good housekeeping.
- 2. 7,500.
- 3. A competent electrician.
- 4. Yes.
- 5. 400,000.
- 6. Your fire chief's.
- 7. 280,000 acres burned over. \$3,000,000 damage.
- 8. Once a year.
- 9. Burn in a brick or metal incinerator.
- 10. Gasoline.
- 11. Careless smoking.
- 12. Fire retardant roofing materials.

Sidney Hospital Drive Under Way

The Hospital drive for \$10,000 Revolving Capital Fund is now under way, having started on Monday, September 11, 1944.

A house to house canvass is being conducted by the women of Sidney and Sidney Center. No soliciting will take place in the Scintilla Plant. Anyone not solicited or anyone living outside of Sidney where no campaign is being conducted, who desires to give, may do so by bringing or mailing their contribution to Harry M. Walton, Jr., Treasurer of the Drive, Sidney, New York.

Sidney naturally does not plan to conduct a drive in the surrounding communities, even though the hospital is serving the people who live in these communities, and any funds that the people of these communities wish to contribute, would be greatly appreciated.

The captains of the various districts in Sidney and Sidney Center are as follows: The General Chairman of the Women Workers is Mrs. Harry M. Walton, Jr., with Mrs. Alvin Hoegger covering the River Street Section; Mrs. Ralph Beames covering the Camel's Back Section; Miss Marjorie Smith covering the Bridge Street Section; Mrs. George E. Steiner covering the West Main Street Section; Mrs. Maxwell Miller covering the East Main Street Section; Mrs. Robert Laraway covering the Riverside Section; Mrs. Roland Chartier covering the Sherwood Heights Government Project; and Mrs. Percy Hoy covering Sidney Center.

While no report is available yet of the funds received to date, it is understood that this project is receiving the wholehearted support of the people in Sidney and surrounding areas and is one to which they are giving generously.

Service Man Seeks Radio

Since receiving a letter from T/4 Lewis F. Aylesworth, former Department 15 employee, an effort has been made to obtain a radio of the type requested. Thus far we have had no success, so we're taking this opportunity to reach all of you who may wish to be of assistance.

We reproduce herewith a portion of the letter, which is self-explanatory:

"Although this may seem like quite a request from your viewpoint, it means a great deal to us men in service, where we don't have very much access to news of the happenings in this war in all theaters of operations . . . and also other news from the other side of the world.

"My request is this. I wondered if it would be possible for you to obtain a double-circuit (AC and DC) portable radio, with battery operation and also for use when our barracks are finally wired for lights.

"I would appreciate this very much, as well as would nineteen of my buddies in the same hut with me, and we all would be grateful to you for this favor, if it is possible."

Yours truly, T/4 Lewis F. Aylesworth.

Judging from the postmark on the envelope, T/4 Aylesworth and his buddies are somewhere in the Pacific. If you have a radio of this type, and are willing to donate it or sell it at a reasonable cost, please get in touch with Mollie B. Aber, Ext. 210, at the East Guard House.

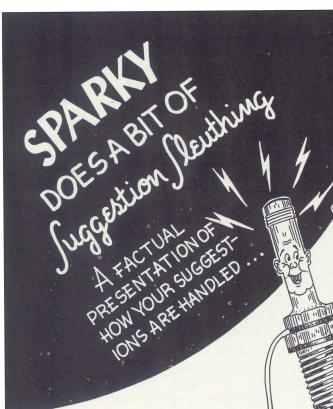


Frank Hubbell, Tool Room, is calling a meeting, to be held on Tuesday evening, October 3rd, at 7:30 at the USO, for all sportsmen interested in fox hunts. Foxes are definitely a detriment to our game, and Frank has some swell ideas for exterminating the "crafty creatures." With the cooperation of all sportsmen, this project should prove quite successful.

Field Trial entries are coming in fast, and by the time this goes to press, the activities of the trial will be history. However, all pertinent data regarding the complete running of the trial will appear in this column in the October issue.

LYNN STRINGER, S 2/C, writes us that he is attending a fire control maintenance school in San Diego, California, studying electricity, optics, trig, algebra and gear ratios. Lynn worked in Department 46 while at Scintilla.





"Sparky." I'm a newcomer to Yup, that's me all over ... "Sparky." I'm a newcomer to "Sparky." I'm a newcomer to "Sparky." I'm a newcomer to the standard of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator, and I'm just rarin' to get busy. Instead of going the Scintillator in going the going the Scintillator in going the going the Scintillator in going the going and be the "spark plug" of the Suggestion System.

Only a few days ago I overheard a conversation out the do this only let me do this one fellow save to another. "If they'd only let me do this one fellow save to another." shop. One fellow says to another:

The other fellow comes in twice as fast. The other fellow comes in my way I could do it twice as fast. shop. One fellow says to another: "If they'd only let me do this comes is only a small operation, and the savings wouldn't run into a specific only a small operation, and the savings wouldn't run into a lot is only a small operation, and the savings wouldn't run into a lot is only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a small operation, and the savings wouldn't run into a lot only a the first one replies, "Oh, I don't think they'd be interested. This is only a small operation, and the savings wouldn't run into a lot of money." About that time I decided that there was an important job About that time I decided that there was an important job to be done at Scintilla, so here I am . . . and I'd like to give out with a bit of suggestion "info.", First. take a look at what han to be done at Scintilla, so here I am . . . and I'd like to give out with a bit of suggestion "info.", First, take a look at what hap with a bit of suggestion one that was turned in by Anton with a bit of suggestion "info." First, take a look at what hap a typical suggestion, one that was turned in by Pens to a typical suggestion, one that was turned in by Pens to a typical Room. Start with the photo at right and followed of the Tool Room. pens to a typical suggestion, one that was turned in by Anton Weiss of the Tool Room. Start with the photo at right and follow the prows. Then turn to "Snarky Soz.", on Page 19. of money." Weiss of the Tool Room. Start with the photo at right and 12.

Now the arrows. Then turn to "Sparky Sez:" on Page 12.

FILE COPY OF MR. WEISS' SUGGESTION IS STAMPED "ACCEPTED," TOGETHER WITH DATE OF ACCEPTANCE.

SUGGESTION INVESTIGATION, REPORT Reference No. ... 1882 Submitted to Dept. Suggestion No. 1706 Date June 6, 1944 The following suggestion has been received. Please investigate it occarding to the established routine and record your report on the reverse side. Word your reply so that it may be quoted directly to the suggester.

suggest insert part #10-8526 could be located in mold thout being screwed to the mold itself by an additional late. The improvement will at least eliminate 4 opera-

Rivet the insert to the plate.
 Sorew plate to mold;
 Drill off rivet in plate after molding.
 Remove plate from part #10-5029AU,

Besides, it will save tools. All the 14 cylinder molds can be changed with very little expense. There are several ways for old as well as new molds by not using any screws at all but wedge insert between upper and lower mold parts.

I believe my idea will increase production, save time, save material, and increase tool life.

ACCEPTED

RETURN THIS COPY DO NOT TRANSFER

R. G. Talada - Supervisor Suggestion Activities

A. wurkles

RGT: JLM FOLLOW-UP ON ACCEPTED SUGGESTION nitted to Dept. Attention of Mr. J. Beyen a suggest insert part flood226 could be located in sold the floor below screwed to the sold it self by an additional time. The improvement vill at least eliminate "opera-After the insert to the plate, Sorme plate to noid, the plate, prill of rivet in plate after molding. Remove plate from part \$10-5029AU. I believe my idea will increase production, save material, and increase tool life.

to feet that this suggestion is very good and we suggest trial of 100 beads, preferably fire-corpu

FOLLOW-UP COPY SIGNIFYING SUGGESTION IS IN OPERATION GOES INTO SUGGESTION DEPT. FILES.

RECORD (ARD.



SUGGESTION IS REVIEWED BY THE SUGGESTION AWARD COM-MITTEE 15 ACCEPTED AND AN AWARD 15 AUTHORIZED. L.TO R. ARE:-W.MICHEL, F.B.ESTY, C.KUEBLER, L.G. TALADA, E.M. VAN NAME AND H. KELLER.

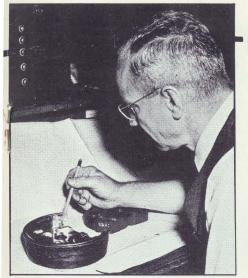


INVESTIGATION COMMITTEE HAS REPORTED FAVORABLY TO SUGGESTION SUPERVISOR, WHO FORWARDS SUGGESTIC TO JEROME ALT (ABOVE), COST CONTROL, FOR ESTIMAT OF INSTALLATION COST AND SAVINGS.

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| BCB | •• | POSITION OF SUITED ON MR. WEIS | CESTION 15 | | | | | âA . ;; | |

MR.WEISS'ACCEPTED SUGGESTION, WITH C SENT TO MANAGEMENT FOR PAYMENT G.E. STEINER, COMPTROLLER (ABOVE PROVES AWARD PAYMENTS.

IDEA IS PUT INTO OPERATION, MR. WEI PART THAT HE VISUALIZED IN HIS S



MR.WEISS CONCEIVES IDEA OF CHANGING MOLD PART TO ELIMINATE SEVERAL OPERATIONS AND TO SAVE TOOLS.



MR.WEISS SUGGESTION, WITH OTHERS, IS PICKED UP IN THE WEEKLY COLLECTION BY L.G. TALADA, SUPERVISOR OF SUGGESTION ACTIVITIES.

A SWELL SIGN

M BER WAY



INVESTIGATORS CONFER WITH MR WEISS TO GET MORE COMPLETE DETAILS OF CHANGES RECOMMENDED IN HIS SUGGESTION. L. TO R. MILTON RICE, MR.WEISS, JOHN BEYEN AND W.J. CLARK.



MR.WEISS RECEIVES CARDACKNOWLEDGING RECEIPT OF HIS SUGGESTION, AND STATING INVESTIGATION OF HIS IDEA HAS BEEN STARTED.



JOSEPHINE MIRABITO SUGGESTION DEPT.
OFFICE, REMOVES MR. WEISS NAME FROM
SUGGESTION BLANK, LEAVING ONLY HIS
SUGGESTION IDENTIFICATION NUMBER.





AWARD CHECK-FOR HIS SUGGESTION IS PRESENTED TO MR. WEISS BY JOHN BEYEN, HIS DEPARTMENT SUPERVISOR. ROY TALADA VIEWS PROCEEDINGS WITH SATISFACTION.

WHAT TO SUGGEST

1. How to save what is now being lost or wasted. 2. How to conserve time, machinery, stock supplies, etc. 3. How to make a better tool. 4. How to improve a jig or fixture. 5. How to handle work faster or better. 6. How to use material now being scrapped. 7. How to improve the appearance of our products. 8. How to improve the handling of material or finished product. 9. How to eliminate unnecessary handling or transportation. 10. How to eliminate unnecessary work. 11. How to use machines in place of hand work. 12. How to produce our products more economically.

This list is not complete. Any suggestion you think worthwhile will be carefully considered. Suggestions dealing with new products, parts, or processes can not be given consideration until the first lot, or experimental run has gone through manufacturing and assembly, and the design or process established. Therefore, suggestions are welcome, and acceptable for consideration only on products, processes, or routines which have been established beyond the trial or experimental period.

HOW TO MAKE A SUGGESTION

1. Get suggestion forms from boxes throughout the plant.
2. Put only one suggestion on each blank. If more space is needed, or sketches are submitted, use plain paper. 3. Write each suggestion clearly and in detail, giving part numbers, operation numbers and where located. 4. If you refer to a

machine, give machine number and its location. 5. Be sure your name and department number are in the proper place on the form, as this is the only way in which the Suggestion Supervisor can get in touch with you. 6. Writing suggestions or the preparation of drawings should be done outside of working hours. 7. You may submit as many suggestions as you wish at one time.



/ TO

FION

ITH OTHERS, 15 ENT OF AWARD. 30VE), AP-

WEISS HOLDS MOLD HIS SUGGESTION

Department 23

On Sunday, August 3rd, the Inspection Department held the first of what we all hope will be a series of supervisory clambakes. The weather was beautiful, the beer was cold, and the clams excellent. The day's activities were highlighted by two softball games between the first and second shift supervision, which were concluded as a draw . . . one game apiece.

The scores of aforesaid games are somewhat of a mystery, as they fluctuated from inning to inning. "Bouncing Bill" Harrison, the dynamic fireball of Inspection, pitched an airtight game . . . well, practically watertight. Anyway, he pitched for the first game and, at every pitch, shrieked loudly that he had been robbed. "Scoop" Kelly, our enterprising photographer, lurked about the sidelines getting pictures of every misplay made . . . at least, he must have had almost that much film. Then there was our dauntless umpire, "Lou" Patrick, the man who is always right . . . but not with Harrison pitching. All in all we had lots of fun and hope it can be repeated.



NURSE TRAINEE DORIS CUMBER

Doris Cumber, the well known clerk of the Inspection Department, is now in training at the Binghamton City Hospital.

Doris was with Scintilla for almost ten years and was prominent in many activities including War Bond Drives, Business and Professional Women's Clubs, Nurses Aid, etc. She was the person who handled the Inspection Department fund for Servicemen and sent presents or money each month to former inspectors now in the Service. Her reward for the many extra hours spent in this work was the knowledge, according to letters from the boys, that this contact with Scintilla was a bright spot because it made them feel that the Inspection Department had not forgotten

Doris hated to leave, but felt she could be of more service in the new field she has chosen.

A party was held in her honor during the lunch hour, August 26th, in the main Inspection section. Refreshments were served, including a delicious cake which was baked by Lenore Kenworthy. She was presented with three suit cases as a parting token of esteem from the people of the Inspection Department.

The Subcontractors

The lads from Subcontracting, along with some friends, left Saturday, September 2nd, for Cleveland, New York, to rid Oneida Lake of some very large fish. John Quinn and Curly Foster were the unappointed advisors, and advice was plentiful and cheap. Those included on this trip were Bill Weed, Warren Nichols, Ralph Doyle, Art Dietrich, John Lyons, Mike "Brow" Veres, Tom Hann, Clarence "Outlaw" Kessler, Forrest Gresso, Wade Johnson and George "Supposed to be the Cook" Smith. The caravan proceeded as scheduled as far as Sherburne, when one of the group was among the missing. In fact, the law finally caught up with them after all these years.

Upon arrival, Bill Weed, with Tom Hann, went 12 miles up the lake to get Bill's boat. The trip back down the lake in the rain storm was enough for Hann. He decided he was too light for heavy seas and too heavy for light seas, so he immediately crawled into his bunk (at 9 P.M.) for a good night's sleep. He got up at 7 A.M., went to town for breakfast . . . to find himself up one hour before the town awakes. Breakfast served at

Some of the boys . . . Doyle, Gresso and Johnson . . . even went fishing and caught a good sized punkin seed in all the rain. Mike Veres awoke Sunday morning and complained first about the snoring of his camp mates, then about the temperature of his orange juice. Gresso, Johnson and Doyle started out before sun-up after more punkin seeds and got way out into the lake when the motor failed. Gresso claimed he beat a horse out of a job rowing the boat back. Doyle, after 4 miles, pulled up the anchor, and then it did row a little easier. Mike Veres, the Izaak Walton of Gilbertsville, with Kessler and Hann, tried his luck in one boat until Mike got seasick and called the trip off.

If anyone wants to catch some fish, go to Oneida Lake, because none of the fish there have even been disturbed.

P. S. The meals were delicious!



homa, studying

A former Department 17 employee, Ove T. Munk, F 2/C, is stationed at Dearborn, Michigan. Ove left Scintilla in March of this year.



We at Scintilla will miss Doris Cumber, but we wish her every success and happiness in her new work. Her address is Johnson Hall, Mitchell Avenue, Binghamton, New York. How about writing her a letter?

SPARKY SEZ:

Right off the bat, let me put you straight on something. Don't think for a minute that, even though your suggestions are minor ones, they aren't valuable to Scintilla . . . because they are. A lot of suggestions for small improvements have a way of adding up to big savings in the long run. Just like water dripping from a faucet. A lot of small drops will eventually fill the bucket.

Now, it doesn't require any great amount of horse-sense to get hep to the fact that the more improvements we make in our production methods, tools and quality, the more our products will be in demand. And you don't have to be a college professor to know that satisfied customers are the best insurance against business failures and unemployment!

And here's something else I hope you'll remember. The people responsible for handling your suggestions go to a lot of trcuble before your suggestion is either accepted or rejected by the Suggestion Award Committee. They go over it with a fine tooth comb to see whether or not it will work.

I.P.C. (from page 8)

uted to the development and manufacture of notable machinery or equipment. The motion picture industry is not yet fifty years old but it is significant that I.P.C. has a large number of employees who have been with the company from ten to forty years.

As in all manufacturing companies, war conditions have made demands and created problems that do not exist in peace time. Mr. Campbell has increased efficiency to a marked degree and at the same time retained the good will of the men and women in the various departments of the I.P.C. plant. E. L. Worfolk, Controller, is the youngest of the four men and the fact that he continues to be an active participant in the plant soccer games is evidence of his youth and energy.

Mr. Hines and Mr. Palmer hail from the Middle West and have carried to the East that American spirit of democracy joined with efficiency which has so greatly contributed to the prosperity of this country, and added so much in the production of essential war equipment. It is this kind of management and personnel, combined with equipment and experience, which have enabled I.P.C. to meet the urgent need for critical war equipment and frequently win the approval of Army and Navy departments. Of the thousands of magnetos made by I.P.C. not one has been returned. It is all this that has made it possible for the International Projector Corporation, as sub-contractors, to meet the demands the Scintilla Magneto Division has made upon us for magnetos and parts supplied for the vital war program it has undertaken for our armed forces.



LIEUT. DONALD PATCHEN

Patchen Writes Parents

First Lieutenant Donald Patchen, formerly of Department 18, is confined in Stalagluft 3, a German prison camp near Berlin. He was pilot of a P-51 (Mustang) and was forced down in enemy territory. Since his capture he has been promoted from Second Lieutenant to First Lieutenant, but it is doubtful that he has yet learned of his promotion.

In a letter recently received by his parents, he said:

"Hope you've received my post card by the time you get this. I'm quite all right and starting to get a nice sun tan. Of course, it isn't home, but it could be much worse. Am getting plenty of rest and the food is good but not any too plentiful. The biggest share of it is sent to us by the Red Cross and also our clothes. Right now the weather is beautiful so we don't worry about getting our clothes dirty, for we wear just shoes, socks and shorts. We do our own washing and cooking. Should make some girl a nice wife after this is over. I can receive as many letters as anyone cares to write me, but I can only write three of these letters and four post cards a month. I can also receive only one clothing and food parcel and two tobacco parcels every two months. It will take letters about three months to get to me. Food is about the most important thing, but I expect the Red Cross can tell you all about it. Please don't worry about me for I'm quite all right. Will write all my letters to you. Say hello to everyone for me."

Reprinted below is the communication from the War Department advising Don's mother, Mrs. Genevieve Benedict, of two citations which have been awarded to Don, to be presented to her sometime soon.

"I have the honor to inform you that, by direction of the President, the Air Medal and two Oak-leaf Clusters, representing two additional awards of the same decoration, have been awarded to your son, First Lieutenant, then Second Lieu-

One Card Better Than No Letter!

Here's an idea that has worked successfully in Tool Inspection Department, so we're passing it along for what it may be worth to other departments.

It was found that letters from employees to boys in service were not too plentiful. The time necessary for letter writing apparently was too great an obstacle for the average employee whose time was cut to fit a tight pattern.

As a solution to the problem, the department put in a supply of penny postal cards, and had several cards pre-addressed to each of their men in service. From time to time the employees jot a friendly message on one or two cards and send them along to some of their service men. It takes only a couple of minutes, with the result that the boys are receiving a lot more mail than previously.

Stock "C" Notes-2nd Shift

September 9th, Stock "C" opened its No. 2 Stockroom for Department 31. We are now ready for business, and we give "Service with a Smile."

Departments 26 through 31 enjoyed a clambake at Unadilla Park on September 10th.

We are sorry to lose Bert Colton and hope his stay in the hospital won't be too long. Hurry back, Bert.

Bus Riders Dine

On Friday night, September 8th the riders on the Orange Bus from Afton enjoyed a spaghetti supper at Jerry's. Clifford Hess, with his violin, was Master of Ceremonies. A very good time was had by all, especially Mary. Cliff's last number was "Goodnight Sweetheart," played for Mary and Ann from Line 63.

tenant, Donald J. Patchen, Air Corps. The citations are as follows:

Air Medal

"For meritorious service in aerial flight in the completion of ten operational sorties, or the equivalent thereof, over enemy occupied Continental Europe."

Two Oak-Leaf Clusters to Air Medal

"For exceptionally meritorious service in aerial flight over enemy occupied Continental Europe. The courage, coolness and skill displayed by this officer reflects great credit upon himself and the Armed Forces of the United States.

"Since these awards cannot be formally presented to your son at this time, the decorations will be presented to you. The Air Medal and Oak-leaf Clusters will be forwarded to the Commanding General, Second Service Command, Governors Island, New York, who will select an officer to make the presentation. The officer selected will communicate with you concerning your wishes in the matter."

Picnic Spot Available

"The Pines," popular picnic spot located directly opposite the Scintilla grounds, was recently completely renovated through the efforts of the Labor-Management Committee of Scintilla Magneto Division, Bendix Aviation Corporation. A number of fireplaces and tables have been installed, and through cooperation of Sidney authorities the grove has been equipped with adequate lighting facilities.

During the past few weeks, numerous picnics and clambakes have been held at "The Pines," and it is expected that Sidney residents and Scintilla employees alike will find it a very desirable picnic place with the advent of warm weather next spring.

In order that there may be no confusion between large groups desiring to use "The Pines" at the same time, please consult the Personnel Department well in advance of the date of your picnic or outing. A schedule of events to be held at "The Pines" will be kept in the Personnel Department, therefore your cooperation in this respect will be appreciated.

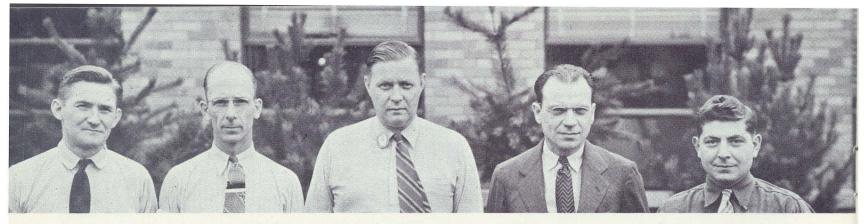
Mailroom

The former members of the Mailroom and Stock "D" now in the Service write us that they would very much appreciate letters from their friends and acquaintances here in the plant. They add that they greatly enjoy the monthly arrival of "The Scintillator" and the Reader's Digest.

James Hardy and Robert Marnell are in the South Pacific area. Hiram Simpson and Louis French, former mail carriers, are with the Atlantic Fleet. George Bell, former addressograph operator, is in India. Bill Cobbe is in Italy, and Harry Hatton is in England.



The "blushing bride," employed in Department 15 at Scintilla, is the former Margaret Blackman, now Mrs. Glenn Geertgens. Sgt. Geertgens was also employed in Department 15 before joining the Marines in October, 1942. Glenn spent 16 months in the Pacific war zone and has now returned to Cherry Point, North Carolina. They were married in Walton on Sunday, August 6th. Congratulations and best wishes.



And here is the other half. L. to r.-F. Cockroft, Coil and Core Section Foreman, Department 39, Days; C. Say, Assistant Foreman in charge of Assembly Section, Department 39, Days; Fred Dixon, Department 24 Foreman, Days; M. Shaw, General Foreman, Department 39, Days; J. Puccio, Head and Finger Section Foreman, Department 39, Days.

in Our Production Chain Links

DEPTS. 24 and 39-MOLDING

Although the average Scintilla employee may have only a nodding acquaintance with the functions of the Molding Department, he (or she) is sure to mention that it has one outstanding characteristic . . . "it's usually hotter than hell with the lid on." All of which leads us to remark, at this point, that "heat" and "molding" are as inseparable as "Scotch and Soda" or "ham and eggs" or

"Mutt and Jeff" . . . or any of a score of other well-known "inseparables."

When Scintilla first began the manufacture of magnetos in Sidney, all of our dielectric parts were purchased from Switzerland, arriving here fully molded, machined and ready for use. Later they were purchased in rough molded form only, with machining being done here in our plant. Governmental restrictions

finally put an end to our purchase of dielectric

parts from Switzerland. This factor, coupled with the inability of American suppliers to furnish us with molded rubber parts that would meet our quality standards, resulted in a decision to manufacture our own dielectrics.



Depts. 24 and 39 Days



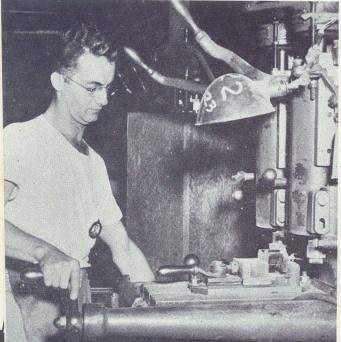
Molding at Scintilla was begun in 1931, on an experimental basis. Equipment for our first molding operations consisted of two old oil presses inherited from the Delco Company.

R. LAWRENCE, Super., Dept. 24, Nights

(continued on page 16)

Blanche Brown (left) and Ruth Brown, Department 39, perform Burring and cleaning Ruth Brown, Department C. Photos by Norman C. Meagley





Above-Harry Stuit, Department 39, performing a turning, facing

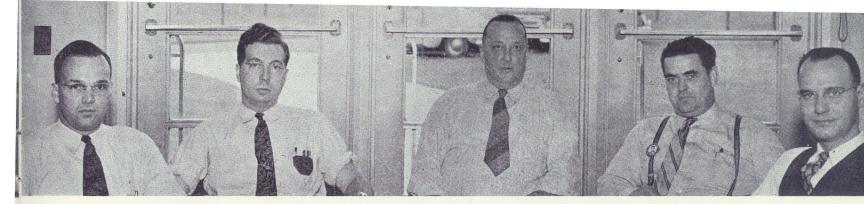
and grooving operation on an 18-cylinder Melmac Distributor Head. Machine is a Warner-Swasey Lathe. Below—Bob Gerster,

Department 39, is shown profiling a Distributor Block.





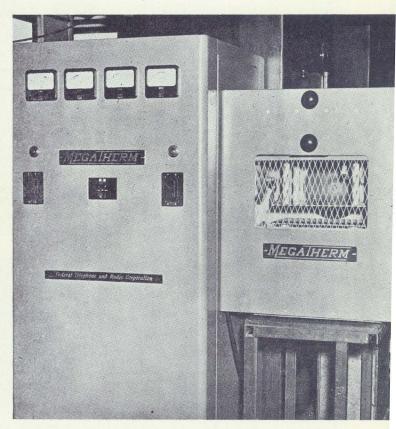
R. RIKER, Super.,



The five men above constitute one-half of the foremen in Departments 24 and 39. L. to r.—W. Law, General Foreman, Nights; R. Holdredge, Department 39 Foreman (Head and Finger Section), Nights; C. Fleming, Department 24 Foreman, Nights; J. Zurn, Assembly Section Foreman, Department 39. Nights; P. Hamilton, Coil and Core Section Foreman, Department 39, Nights.

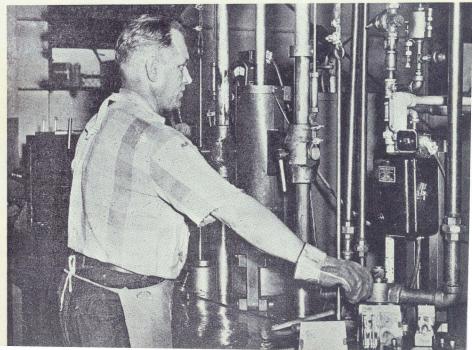


Above—Paul Miner, Department 24, transfer molding an Allison Distributor Finger with induction heated Melmac. Below—Isabel Finch, Department 24, molding small Insulator parts on a Compression Press.



Above—This view shows the latest type of Induction Heating machine. It is located in Department 24. Below—Jay Curry, Department 24, operating a Rubber Injection Gun on a Distributor Block Mold.





Production Chain (from page 15)

Progress was slow at first, and each succeeding new step was approached carefully. As a result, our present methods are built on a foundation of thirteen years of practical, well-grounded experience. Bakelite molding followed after rubber molding, and so on up to the present, which finds us now making molded parts from hard rubber, Bakelite, soft rubber (in small quantities), Melamine (Melmac) and Synthetic hard rubber (Buna).

For the past few years until the development of Melmac, the older type of hard rubber (Red) Molding was regarded as the ideal material for insulating magn to parts. Melmac, however, has been found to hold certain superior dielectric qualities and greater physical stability under heat. After the beginning of World War 2, Melmac had been adopted for about 50% of the parts previously made from red rubber. Then, with Japan in control of the rubber-producing territory, came the "squeeze" on rubber . . . a factor that led to our use of synthetic hard rubber, black in color, and known to the trade as "Buna." Despite our rapid expansion of molding facilities in the last few years, wartime demands have necessitated our purchasing many molded parts from outside sources.

There are three special qualities which we strive for in our moldings: (1) Dielectric strength and arc resistance. (2) Physical stability, i.e., a minimum of distortion or change in size under excessive heat or cold. (3) Strength to withstand the constant vibration of aircraft and tank engines. Four methods are now in use in the manufacture of our moldings: (1) Compression. (2) Transfer. (3) Rubber Injection. (4) Transfer of Induction-Heated materials.

Parts now being molded here include Distributor Heads and Fingers, Coil Housings, Terminal Blocks, and various insulating plates, bushings, sleeves, etc. for use in our Magnetos, Switches, Harnesses and Distributor Units.

Raw stock for moldings comes in several different types. The material for Hard Rubber and Synthetic Hard Rubber moldings is received in the form of round rods, for Injection Molding, and in flat sheets for Compression Molding. The material remains in the mold under heat and pressure, for a period of 10 to 25 minutes, depending upon the thickness of the section. When taken from the mold it is still somewhat soft and requires an afterbake on suitable forms and fixtures to maintain size and shape, and to bring it up to the required degree of hardness.

Material for Bakelite moldings comes in powder form, and receives its final set in the mold, requiring no after-bake.

Soft rubber is received in sheet form, and although it is finished when it comes from the first mold, it is necessary to keep it in the mold for a longer period.

Melmac is a powder, and has a moldcuring time comparable to that of Hard



CPL. OTTO DANZI, left, and a buddy, photographed somewhere in New Guinea. Otto worked in Department 39 while employed at Scintilla and has been overseas since January.

Rubber. It is completely hardened when taken from the mold, but in most cases an after-bake is desirable to enhance its dielectric properties.

The molding operations covered thus far in this description are performed in Department 24. R. Riker is Day Supervisor of Departments 24 and 39, and R. Lawrence is Night Supervisor of Department 24.

Several of the "old timers" who were in at the beginning of our molding activities are still going strong on the job. Fred Dixon, "Park" Fleming, "Jum" Wakeman and Bill Tuckey are among those who grew up with the department.

Warren Kishbaugh, now assistant Supervisor of Production Engineering, was in charge of our first molding operations. Herman Winkler, although not currently connected with the actual production phases, was the guiding light in Molding for a period of 9 or 10 years. Dick Riker, Day Supervisor, worked closely with Mr. Winkler during this period, and has been connected with the various phases of molding for about 10 years.

Now that you have a brief picture of the function of Department 24, let's take a short look at what is necessary to produce a finished molding . . . which leads us to Department 39.

In this department the moldings made in Department 24, with those purchased from suppliers, are machined and brought to the finished stage . . . a process involving a wide variety of machines and equipment. During the early days of our molding history, machining of molded parts was the source of many a headache. With the advent of carbide cutting tools came some relief from one of the toughest problems . . . dulling of cutting tools. Ordinary cutting tools led a comparatively short life. as they would be dulled after cutting two or three pieces. New equipment was added from time to time until the machining section was operating on a completely modern basis.

Sparks From Engineering

The Joe Mitchs (Engineering Lab.) announced the birth of a son, Joseph Robert, on September 4, 1944. He weighed 7 lbs. 43/4 oz. and was born at Bassett Hospital in Cooperstown. Congratulations, Joe and Mary. Born on Labor Day too!

John Reynolds, formerly of Modern Industrial Engineering of Detroit, has joined the Experimental Design Engineering Department at Scintilla.

The Engineers Club enjoyed an informal dance at the Long River Club in Unadilla on Friday, September 8th. Music was furnished by our own Jack Burr and his orchestra. According to reports the party was a huge success.

Franz Van Buskirk and Roger Merritt, formerly of the New York State Police, are now members of the Engineering Department.

The George Shermans announced the birth of a daughter, Gail Frances, on August 18, 1944. More power to you, George.

Hard Rubber and Melmac compounds are among the most difficult materials to machine, since they possess the devilish faculty of dulling a cutting tool in short order, unless handled with skill. Carbide tools are used for all cutting operations. Great care is essential in the cutting, as the molding compounds chip and crack very easily in machining.

Minute cracks, chipping, porosity and other similar undesirable effects must be avoided in the finished product, as they will destroy the insulating effectiveness of the material. Use of coolants during machining is most essential to prevent excessive local heat which also will cause a breakdown of the insulation. All of which points out the difference between machining of metals and dielectrics. With metals, the operator is concerned chiefly with holding to certain dimensional limits, while in Department 39 each operator must be eternally on guard against any factor which may lead to chipping, cracking or any other damage to a part.

Operations performed in 39 consist of lathe turning and facing, milling, drilling, grinding, tapping, lapping, profiling, boring and various assembly details,

Final inspection of finished dielectric parts borders on the ceremonial, what with size-checking gauges, complicated electrical testing fixtures, balancing machines, and 10-power glasses for visual detection of cracks or porosity. All of these steps are necessary to insure parts which will be mechanically and electrically sound.

Laverne Chase, Charles Shattuck, Clifton Bristol and Ivis Soules are a few of the old-timers who save seen the department's growth to the present stage.

The personnel of both departments take much pride in the knowledge that the high quality of their workmanship has been a very large factor in the continued growth and world-wide renown of Scintilla equipment.



Reviewing the AUSO Shows















Above photos show a few of the acts at the Sadie Hawkins Hillbilly

Above photos show a few of the acts at the Sadie Hawkins Hillbilly Night, held August 23rd at the USO.

Top—The Hillbilly Band in action, with "Snuffy" Wheeler holding forth in a sax solo. Center—A Sadie Hawkins Day Mock Trial. Principals are, l. to r.—Ruth Atkins as Sadie, Fred Smith as Little Abner, George Ferrell as Marryin' Sam. Bottom—Clarence Unverterth shows how his 16,000 lessons on the accordion have borne fruit. Incidentally, DID you get any fruit, Clarence?

Photos by Harry Earl

The three views above were made at the Radio Variety Show at the USO on September 6th.

Top-Mrs. Bruce Smith takes the consequences in the "Truth or Consequences" act. Middle—Another "Truth or Consequences" victim . . . Jean Dilley. Fred Smith is at the other "mike." Bottom-"Snuffy" Wheeler seems to be much in demand at USO doings. Here he is again "giving out" with his sax. Photos by Harry Earl

Headquarters, Army Air Forces
Washington

22 August 1944

Mr. H. Hanni, General Manager Bendix Aviation Corporation Scintilla Magneto Division Sidney, New York My dear Mr. Hanni:

The Army Air Forces desires to express its appreciation to your company for the services rendered by your field service representatives assigned to training installations in this country and in combat theaters overseas, It also wishes to commend these men for their exceptional and meritorious achievements.

These technicians have not only trained thousands of members of Army Air Forces ground crews in the proper maintenance of equipment made by your company, but, through their observation of combat performance, have also been instrumental in indicating improved methods of manufacture and maintenance. Many of them have performed this essential service at great personal risk to themselves.

The Army Air Forces regards these men as an indispensable element in the all-American team of flyers, mechanics, technicians and production workers who are helping us destroy the military and air power of Germany and Japan.

Sincerely yours,
O. P. Echols (signed)
Major General, U. S. A.
Assistant Chief of Air Staff
Materiel, Maintenance and

Distribution



Utilizing his qualifications as a podiatrist, Roland Barratt, Jr., S 2/C, is working in the foot clinic at the Lido Beach dispensary on Long island, where boys with slight injuries are sent when returning from overseas. He was a member of Tool Design while employed at Scintilla. You make a handsome sailor, Bo.



PVT. ARTHUR KANE, a former resident inspector at the Oneonta Manufacturing Company, is at present stationed at Fort Mc-Clellan, Alabama.





We're sorry . . . but we couldn't stretch the pages in this issue. It has been necessary to omit much of the departmental news. But we hope to hear from our correspondents again next month nevertheless.



No this is not Hitler's grave (worse luck)! It's a pit full of clams, corn, etc. for the Service Department and members of their families. Bake was held near the airport on September 3rd.

Servisnews

On September 3rd, the Service Department held a clambake near the airport, which, as far as we can ascertain, was a huge success. H. C. Earl was the bake master and was assisted by Frank Rettberg, Robert Keyser, Joe Bazata, James Fisk, Everett Earl and Norman C. Meagley. On the Saturday afternoon preceding the big event, L. W. Trees, Charlie Flagg and Milt Douglas lent a helping hand by washing a barrel of clams. About 65 attended the bake, including wives and children, part of whom are shown in the accompanying photograph.

The photo also shows that this was a pit bake, rather than the usual steam bake. It may interest some of you to know the difference. In a pit bake, the procedure is as follows: 1. Dig a large hole in the ground. 2. Build a hot wood fire and roll in about 35 large cobble stones. Allow them to heat well for 5 or 6 hours, 3. Cover with grass saturated with salt water. 4. Cover grass with 3 or 4 layers of cheesecloth. 5. Add prepared food. 6. Cover with two layers of cheesecloth, canvas and dirt and leave it for three hours, and bake is ready to serve. The heat absorbed by the stones is sufficient to cook the food. It might be added that bakes of this nature give far tastier results than a steam bake, although they do involve a great deal more work.

Mickey Cornell has taken that fatal trek down that long aisle to have her name changed. Just as easy as all that . . . Mickey is now Mrs. Harry Collings. We extend best wishes to both for a long and happy life.

Departments 56 and 51

A picnic was held at Guilford Lake recently in honor of Richard Still, who was foreman and set-up man on Lines 56 and 51 respectively.

Dinner was served at 6:30 to 42 guests, after which Mr. George Jones, Master of

Final Magneto Inspection Second Shift

The department was sorry to lose one of its members this month. Helen Judd, a mother of five sons in the Service, who has been with us for two years, was forced to leave due to ill health. Good luck to Helen from all or us.

Congratulations to the Harold Puffers, who are the parents of a new daughter.

At the present writing, we are all a little confused. George March was absent for a week due to a foot injury. The rumor is that he and a rattlesnake came to blows and George was the loser. Well, anything can happen on that high altitude farm of his.

Irving Kinkroum, the only eligible bachelor in the department, is suffering from the effects of leap year.



HAROLD GIBBS, S 2/C, better known as Doc, left Department 16 in March and is now an instructor stationed in California.





Ceremonies, took charge. Speeches were given by Mr. Jones, Mr. T. Beyen, Supervisor, Anthony Schrader and "Dick" Still.

After the appropriate speeches, Mr. Still opened the gifts given him by his friends and co-workers. A gay half hour followed, after which a reading, "That Terrible Tommy," was given by Mrs. Otis Spry.

Deserving of honorable mention are those of the committee who helped make the picnic such a success, namely, Evelyn Kane, LaGretta Crawshaw, Elvin Raymond and Virginia Peters.





This is a recent photo of the Sidney USO Building, taken after the carpenters, painters and landscapers had packed up their various implements, at the end of their brightening-up spree. The USO has given pleasant hours to hundreds of Scintilla's war workers since its establishment here. During the last few weeks a series of amateur programs has drawn large crowds. Plans are now in the making for an active winter season.

Photo by Harry Earl



Department 91

Several new girls have recently joined the ranks of 91. They are Marion Franzese, Elsie Darling, Dorothy Pearsall and Barbara Schlafer.

It seems that Isabelle Cangro almost came up among the "Mrsing" but recovered just in time. "Is," we can't lose another girl.

With several of Charlie's girls checking out, we wonder if his new theme song will be "Soon, maybe not tomorrow, but soon, there'll be just two of us."

We have too many women in Department 91 to select a pin-up girl, but the general opinion seems to be that Steve is the pin-up boy. We noticed a grey hair among his dark curls. Could the timekeepers have caused that, Steve?

The people in the Lewis Building certainly miss Violet Young, who has forsaken the Timekeeping Department to join the Cadet Nurse Corps. Department 27 presented her with a lovely identification bracelet before she left.

We wonder: Why Clarence doesn't bring his accordion to work; where George Chickering gets his permanents; how Fay gets along without sleep; why Jessie Todd works so very hard for the first three hours every morning; why Charlie won't work on Sunday.

Cost Control Chatter

Virginia Hartwell left us September 26th to join her husband, now stationed at Fort Myers, Florida. Another old timer passes along, but we hope to have "Ginny" back again soon.

With the exception of those who will try to "shoot a buck" during the coming deer season, vacations have just about ended.

Russ Wheeler took a week off to overhaul Ernie Haskell's outboard motor and do a little fishing at Oneida Lake . . . with the usual results. The motor works fine! Russ really looked rusty when he returned.

"Callie" Utter spent a couple of weeks getting rested up and chasing away her summer cold.

We wish to welcome Wilma Shew, Marie Arndt, Henrietta Davis and Edith Schutte into the Cost Control Fold. They replace some of our recent departures.

Bowling is again in the air. We are trying to arrange a time satisfactory to as many as possible so that some of the fun we had last year may be repeated this year. We'll miss Goldie Force, Stu Currie, Virginia Hartwell and Joe Roberts, but there may still be enough to make it worth while if you are interested. Let's see what can be done.

Tool Room Notes

The main topic for this month will be the Die Gang's steak roast. It was an affair for the entire family, and everybody enjoyed themselves.

Jackle merits a special note of thanks. He entertained the children all day, and he and the children had a swell time. (He finally found a chipmunk.)

Charlie Kinch will henceforth be known as "Willie Lump-lump." Herman hit him so hard with a volleyball it hit both sides of his head at once.

Frank Bard put on an exhibition of diving. He fell out of the boat in six inches of water. He went down for the second time, but was rescued before the third time. De Salvo provided as much entertainment as Bard. He rolled around in the sand laughing at Bard, and it's a toss-up as to who got the most laughs.

Herman With-shoes-on is comparable to a sea captain, (no, I don't mean the salt-spray). Take, for instance, when a squall is sighted on the horizon. The sea captain says, "Batten the hatches." Herman says, "Button the hutches."

When Plank felt the earthquake he said, "Well, Louie must have hit town again."

LITTLE THEATRE NOTES

Although no definite decision was made regarding the distribution of the "Cigarette Fund," the Little Theater group held a lively discussion recently, and the following suggestions for donations were made: donation to local hospital, donation

to Army and/or Navy Relief, purchase of Iron Lung, opening of a "Teen-Age Canteen" for the juvenile group, or contribution to the local USO Building fund. Final disposition of the fund rests upon certain information we hope to secure in the very near future. Anyway, folks, we'll keep you informed.

* BARTER COLUMN

FOR SALE: Upright piano, good condition. Clifford Tuttle, 54-100, 1st Shift, or 270 Johnston Circle, Sidney.

FOR SALE: Western Saddle and 2 single harnesses. Fenelon Hill, 23-1350, 2nd Shift, or 45 Pleasant Street, Sidney.

FOR SALE: Porcelain-top kitchen table, fair condition, \$5; Philco table radio. 5-tube, \$15; pair of new "claw" tire chains, will fit any 6.00 to 6.50 tires, with tighteners, \$6. Walter H. Newkirk, 80-83, 2nd Shift, or 175 Johnston Circle. Sidney.

FOR RENT: Furnished flat, 3 rooms and bath. D. R. Loomis, 10-25, or residence next to Post Office in Sidney Center.

WANTED: Air rifle or B-B gun. R. E. Day, Training Department, Ext. 424.

WANTED: Thoroughbred German-Shepherd puppy, not older than 6 months must have papers. Dorothy Hendrickson, 67-38, Eext. 294, Lewis Building.

WANTED: Bicycle parts of all kinds. new or used. Cliff Frederick, 84-52, Ext.

WANTED: Used typewriter. J. G. Fisk, Service Department, Ext. 242.

WANTED: Electric motor and pump jack for shallow well. Edward H. Braman, 32-251, 2nd Shift.

WANTED: Good sewing machine. Louise Greenman, Sales Department, or 39-225.

WANTED: Child's tricycle in good condition. Madalin Aiken, Ext. 361 or write Box 75, Sidney.

WANTED: Small lathe for machining metals. R. Stafford, 23-175, 1st Shift.

WANTED: Old coins, liberty nickels, Indianhead pennies and old or foreign bills. J. DeTemple, 6-79, Ext. 237.

CRITTERS bashed and quartered. Carcasses tailored to suit your skillet. (In other words . . . all kinds of livestock butchering.) See Frances (Slaughterhouse) Parent, Department II or Louis Parent, Line 41.

FOUND: Ladies brooch. Call in Department 27 or 46 Willow Street, Sidney.

LOST: Waltham wrist watch, chromium case, leather strap. Return to Joe Bazata, Service Department.

LOST: 15-year Scintilla Service Button. Finder please return to Layout Department. Joe Caffee, 86-17. FOR SALE: Two-unit electric plate, good condition, \$5. John Dower, Sidney 6754.

FOR SALE: The greenhouse on my property in Afton. Richard Holdrege, 39-83, Ext. 384.

FOR SALE: U.K.C. coon hound pups, ready to go October 15, papers furnished. Art Palmer, 19-58, 2nd Shift.

FOR SALE: Winchester 30-30, Model 94, new gun fired only 7 times, I box cartridges and belt, \$60. O. Carpenter, 5-28, Ext. 257.

FOR SALE: Pair of Carl Zeiss (Jena) binoculars, Delactis 8 x 40, Ser. #1309378, perfect condition, \$95; Ithaca Field Grade 112-gauge double, \$25; I box 250-3000 cartridges (hollow point); Super Commando ripping knife with 8½" tapered triangular blade of blued steel and serrated or toothed slashing hilt, razor sharp on 3 edges, \$7.50. Bert Petersen, Ext. 257, or 204 Johnston Circle, Sidney.

FOR SALE: 1932 Ford Coupe, rumble seat, nearly new heater and battery, excellent tires, car in good condition. H. G. Chantler, 80-97, Ext. 398, or 23 Smith Street, Sidney.

FOR SALE: Complete set of mechanics hand tools, including sockets, wrenches and other items. 21-43, 2nd Shift.

FOR SALE: Singer floor model vacuum cleaner. F. F. Smith. 86-74, Ext. 412.

FOR SALE: Automobile towbar, bumper to bumper type, adjustable to various heights, unit enables one to tow a car or truck at normal speeds with no driver in rear vehicle, \$7.50. Bert Petersen, Ext. 257, or 204 Johnston Circle, Sidney.

FOR SALE: Jamesway electric battery brooder, capacity 1,000. 24-64, 2nd Shift.

FOR SALE: 16-gauge Savage automatic shotgun, 4 boxes shells, #4 and #6, also I box slugs. H. G. Chantler, 80-97, Ext. 398, or 23 Smith Street, Sidney.

FOR SALE: Man's bicycle, excellent condition, pre-war manufacture, good balloon tires; also lawn mower. R. T. Snowdon, Personnel Office.

FOR SALE: 16 ft. Dodge runabout, seats 5, 45 H.P., Lycoming Marine Engine, spotlight and radio. Max Miller, 5 Orchard Street, Sidney, Phone 4931.

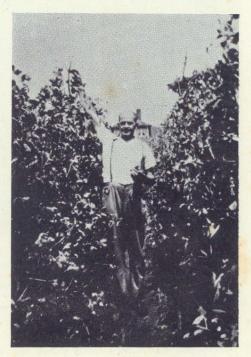
FOR SALE: New 20-gauge Remington Autoloader, 28 in. modified barrel; 4 boxes of shells. Bob Stafford, 23-175, 1st Shift, or Morris, Phone 38.

FOR SALE: Peonie plants. Mt. Upton Iris Gardens. Brownell, 13-22. The Little Theater group unanimously voted to aid in the Hospital drive. We'd like to put on an old-fashioned minstrel, but we need more talent. How about all you folks who really enjoy "show business", and community projects? Don't wait for invitations... come on out. The Hospital needs your talent now, and you just don't know when you may need the hospital.

The Little Theater graciously thanks Miss Scarlett and Miss Jewett for the donation of old-fashioned clothing and accessories for our costumery.

Best of luck to Barbara Aber (Hepsey), who leaves us to study at Antioch College. It's been fun knowing you, Barb.

Our eternal gratitude to the boys of Scintilla who have taken the "last curtain call" so that the free drama of life may still go on.



At the moment of sending copy to the engravers, Herman Wischhusen (above) is the only Victory Gardener who is proud enough of his products to bring in a picture of them. These are his famous Telephone Peas that were 7 feet, 6 inches tall at the time photo was made. Nice work, Herm... and thanks for the photo.

