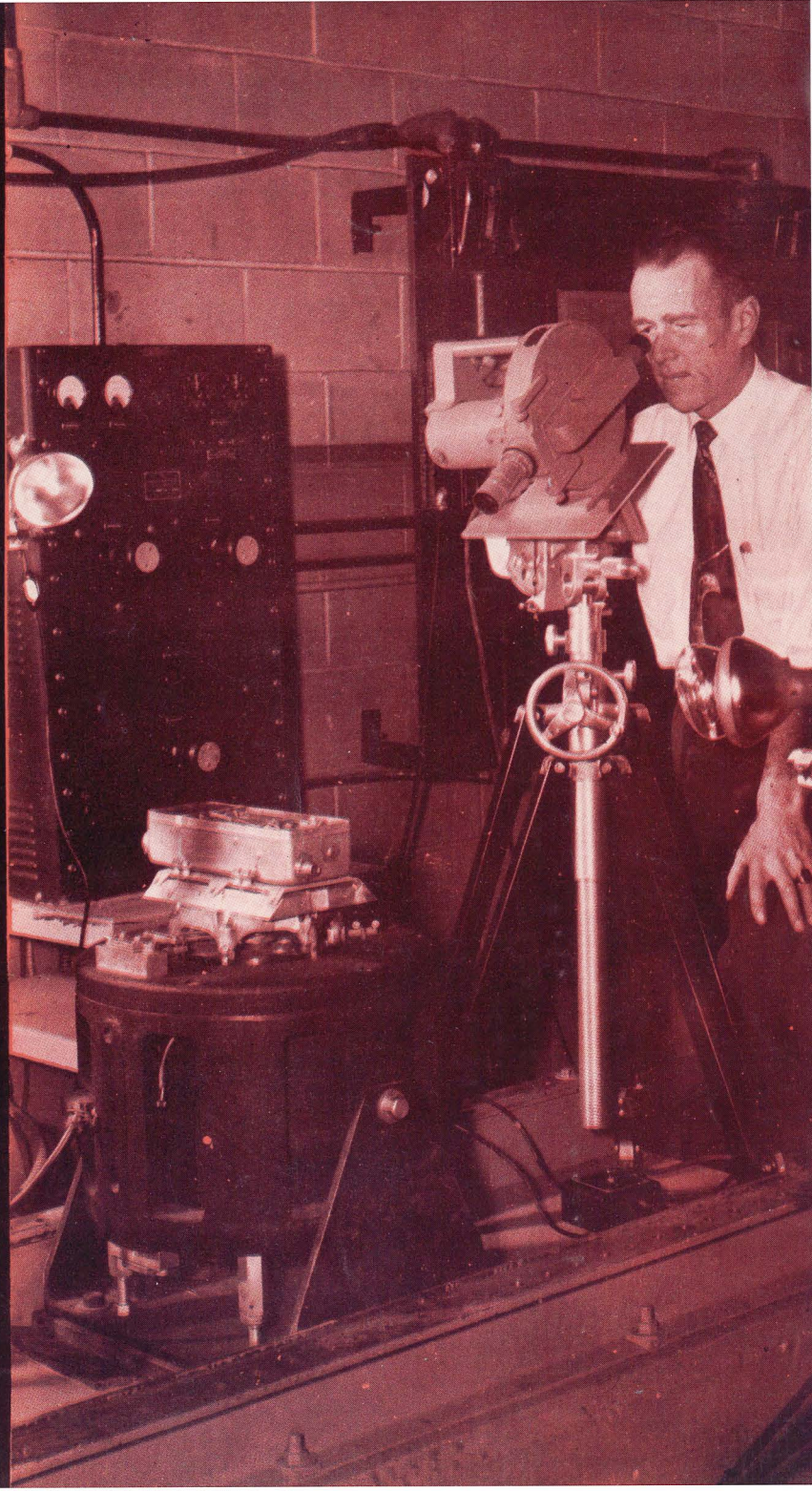


The Scintillator

February, 1953



PUBLISHED MONTHLY BY
SCINTILLA MAGNETO DIVISION
OF
BENDIX AVIATION CORPORATION
SIDNEY, NEW YORK
G. E. STEINER, General Manager

OFFICERS OF
BENDIX AVIATION CORPORATION
M. P. FERGUSON President
W. H. HOUGHTON Treasurer
H. A. GOSSNER Secretary

Vol. XI February, 1953 No. 8

MANAGING EDITOR, Carlton Dwight
Training Supervisor
EDITOR Denny Crandall
PHOTOGRAPHERS Harry Earl
Norman C. Meagley
Manroe P. Dixon

CONTRIBUTORS
Employees of Scintilla Magneto Division

BEHIND THE COVER

Using a movie camera that's fast enough to capture the flight of a bullet to its target, Scintilla engineers have recently delved into a new phase of research work. The camera permits them to study with ease such high speed operations as the functioning of a magneto breaker—a visual impossibility for the human eye alone.

Exposing 100-feet of film in less than a second, the camera—a Wollensak Fastax—takes close to 7,000 pictures within that time. When the developed film is projected with an ordinary projector at the rate of 16 frames a second, the action slows down to a walk so that the engineers can actually see what is taking place.

Our cover pictures Herb Worden, project research engineer, photographing a jet ignition unit that is being vibrated at 150 cycles a second. The Hollywood style scene is taking place in the Vibration Room where Scintilla products are subjected to various vibratory conditions. Although impossible to detect with the naked eye, the use of high speed photography will give Herb and other Scintilla engineers a clear picture of the relative movement of the vibrating parts in the unit.



Willy Ley, the noted authority on interplanetary travel who lectured in Sidney on January 14th under the sponsorship of the Engineers Club, is also a distinguished author who has written for *Colliers*, *Esquire* and many other leading publications. His most recent article, in fact, appeared in the January issue of *MAN'S Magazine* which was being prominently displayed on local newsstands at the time of his engagement here. Concerned with Mr. Ley's predictions of moving sidewalks, mono-rail trains and other aspects of life 25 years hence, it was avidly read by many members of the audience who wished to "bone up" on their speaker.

A colorful group of young people, bearing an equally colorful name—the Rockdale Rustic Ramblers—were guests of Scintilla on a Saturday morning early in January when they toured the plant. The Ramblers from Rockdale are 4H members in that Route 8 community. Following their visit, Scintilla was host on Friday, January 23rd, to members of the Commercial Club from Deposit Central School. After a morning tour of the plant they capped their Scintilla visit with a luncheon in the cafeteria.

Among the countless items read by the editor each month, we especially liked the wording of a recent Scintilla advertisement that appeared in an industrial edition of *The Oneonta Star*. In part, here's what caught our eye: "But we feel that the biggest asset to the area that Scintilla presents is the people who make Scintilla tick . . . the employees. For these individuals are typical of the ideal American. They work together in harmony . . . not only within the gates of Scintilla, but in civic organizations . . . in their churches . . . in their homes . . . in their schools. Welded together, they're a mighty important part of their community . . . their country. Yes, we're proud of Scintilla's accomplishments but we're prouder yet of that group of solid citizens . . . Scintilla employees, who have made it all possible."

Everyone we've talked to seems agreed that Winter saved its most effective weapons for January. After being an unusually mild mannered fellow for a while, Winter put on the brass knuckles and really let go after the first of the year—tossing plenty of wintry blows that were sheathed in rain, sleet, snow and ice. On February 2nd it was so cold that it's doubtful whether even one ground hog ventured forth in search of a shadow.



Mr. Uline



Mr. Fagan

Executive Appointments Are Announced

Two executive appointments of major importance were announced this month at Scintilla. Thomas Z. Fagan was promoted to Director of Sales and Service, and William A. Uline was promoted to General Sales Manager. The promotions were announced by George E. Steiner, General Manager.

Mr. Fagan, who recently became the first person to celebrate thirty years of service with Scintilla, has been the Director of Advertising and Public Relations for the past several years. In his new capacity he will continue to direct the division's Advertising and Public Relations activities as well as those pertaining to Sales and Service, Mr. Steiner said.

The new Sales and Service executive began his association with Scintilla in 1922 when the company was still primarily a New York City sales agency for the original Swiss concern, Brown-Boveri, Ltd. At that time he was assigned to Sales and Service, later becoming Sales Manager. Following the end of World War 2, when Scintilla began the marketing of several new product lines, he was named Ad-

vertising Manager. Through his varied activities as a Scintilla representative, Mr. Fagan has gained widespread prominence in the aviation field.

In announcing Mr. Uline's promotion, Scintilla's General Manager revealed the consolidation of the Aviation and Industrial Sales sections under one Sales Manager. Mr. Uline has been Industrial Sales Manager at Scintilla since September 1951. He was previously Assistant Sales Manager, a position he assumed on November 1, 1948, after several years as a staff engineer in charge of the division's electrical connector program.

I wish to thank The Management for the fruit basket and also Department 81, 2nd Shift, for their gifts and many nice cards.
—Arthur Fargo, Dept. 81.

We wish to thank the 2nd Shift of Departments 26, 27, 30 and 33 for the flowers; also 2nd Shift supervision for their flowers. —
Mrs. A. E. Jones and Family.

I wish to express my sincere thanks to The Management of Scintilla and all friends and fellow workers for the many acts of kindness which contributed so materially to my recovery from recent illness and surgery. The cards, sunshine baskets, flowers and gifts were all gratefully received and appreciated during my stay in the hospital and my convalescence at home.—Elmer G. Edwards.



Frank Pazel and Al Benwell

Scintilla Employees Sponsor \$1,500 Parade of Talent on Polio Telethon

Scintilla was well represented on WNBC-TV's 14-hour Telethon last month when 11 plant personalities took part in a scintillating array of talent for the benefit of the March of Dimes Polio Fund. More than \$1,500 was raised for the fund by the several sponsoring departments throughout the plant.

The appearance of Tex Latham, Dept. 92, before the eyes of thousands of area viewers at 2:30 a. m. culminated "Be Mean to Latham



Tex Latham climbs the ladder to post another contribution on the giant floor-to-ceiling thermometer maintained by Dept. 92 to record the progress of their 1953 drive for polio funds. Meanwhile, Mike Wasko, member of the committee, accepts a contribution from Dolores Wilson.

Week," a special event during which members of the Experimental Department collected \$621.00. Tex was the fourth victim in the history of this novel promotional idea that was first originated by Dept. 92 in 1949. At that time the department sponsored a "Be Mean to Ken Davis Week" for the purpose of raising funds for polio.

On February 2nd Donald S. Jones, director of industrial relations, received a letter from R. S. Hotchkiss, Binghamton Chairman of the March of Dimes TV Telethon, in which he stated:

"I would like to express my sincere appreciation to the people of Scintilla for their generous contributions which helped put the campaign over the top."

According to news releases in the Binghamton papers, \$25,000 was raised by the Telethon.

Other victims in successive years have included Red Wormuth and Harold Pendorf. Contributors to the Dept. 92 fund each year receive a printed tag which entitles them to be mean to the person selected as the victim.

Earlier in the program Frank Pazel and Al Benwell, who bill themselves as The Singing Sweepers, went on the air at 1:30 with a harmonious vocal duet. Frank and Al, well known for their vocalizing at Scintilla, wore fancy top hats for their television debut. They were sponsored by Dept. 38, the members of which raised \$140.30 for polio.

The Supervisory Forum added \$214.75 to the March of Dimes when its members got together and sponsored some sweet barber shop harmony for the benefit of TV viewers. Members of the quartet, which was in the Channel 12 spotlight shortly after 1:00 a.m., included Ken Truhn, Don Sweet, Howard Russell and Doc Fish.

Department 99 sponsored two Scintilla vocalists on the Telethon, giving the polio fund a huge boost with the \$430.70 raised by the Inspectors. Priscilla Sisson represented First Shift

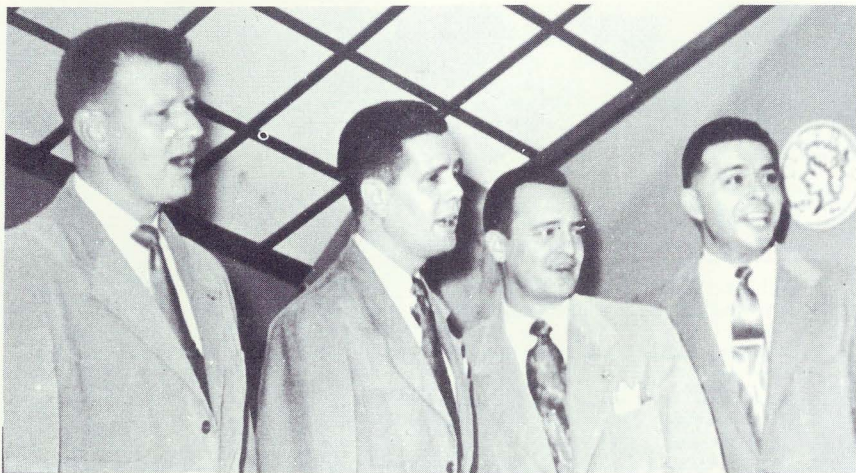
Continued on Page 6



Priscilla Sisson

Andy Catelli





Doc Fish

Howard Russell

Don Sweet

Ken Truhn

TELETHON From Page 5

Inspection, while Gary Minturn represented the Second Shift. They were on area TV screens at 2:00 a. m.

Larry Shields, who went on the air at 4:45 a.m., did some mighty fine vocalizing in the wee hours of the morning for the benefit of his sponsors in Dept. 42 and a section of

Dept. 99. Larry presented Ed Scala, the announcer, \$78.75 on behalf of his Scintilla co-workers.

Not all of the talent sponsored by Scintillites, however, was on the air after the midnight resumption of the Telethon. Violetta Howe, sponsored by Dept. 13, was one of the first to appear in the Saturday afternoon portion of the special program in which

Frank Leonard



Larry Shields



she presented an accordion solo. Members of the department collected \$42.65 for her appearance.

In addition to the acts sponsored by Scintilla departments, two other Scintillites were also on the Telethon under the sponsorship of business establishments and community organizations.

Andy Catelli of Dept. 92 gave a stirring dramatic recitation, "My Baby Maria," for the benefit of his sponsors which included the Business & Professional Womens Club, Ladies of the Orient, Ladies of the Moose, Victory Restaurant, Rock Inn, DePloey's Shoe Store, and the 20th Century Bowling Alleys. His sponsors contributed \$243.00 to put Andy on TV.

Frank Leonard, a member of Dept. 99 and a familiar figure to square dance enthusiasts, was also on the Telethon, playing base fiddle as a member of the western trio sponsored by The Pillars.

In regard to the acts sponsored by Scintilla departments, members of the various committees wish to emphasize that contributions came from all parts of the plant as well as the sponsoring departments.

Gary Minturn



Violetta Howe

BE SURE TO REGISTER NEW AUTO PLATES NOW

Scintilla's parking lots were brightened last month by the addition of several hundred new registration plates, replacing the old ones which have been worn by Scintilla employees' automobiles for the past two years.

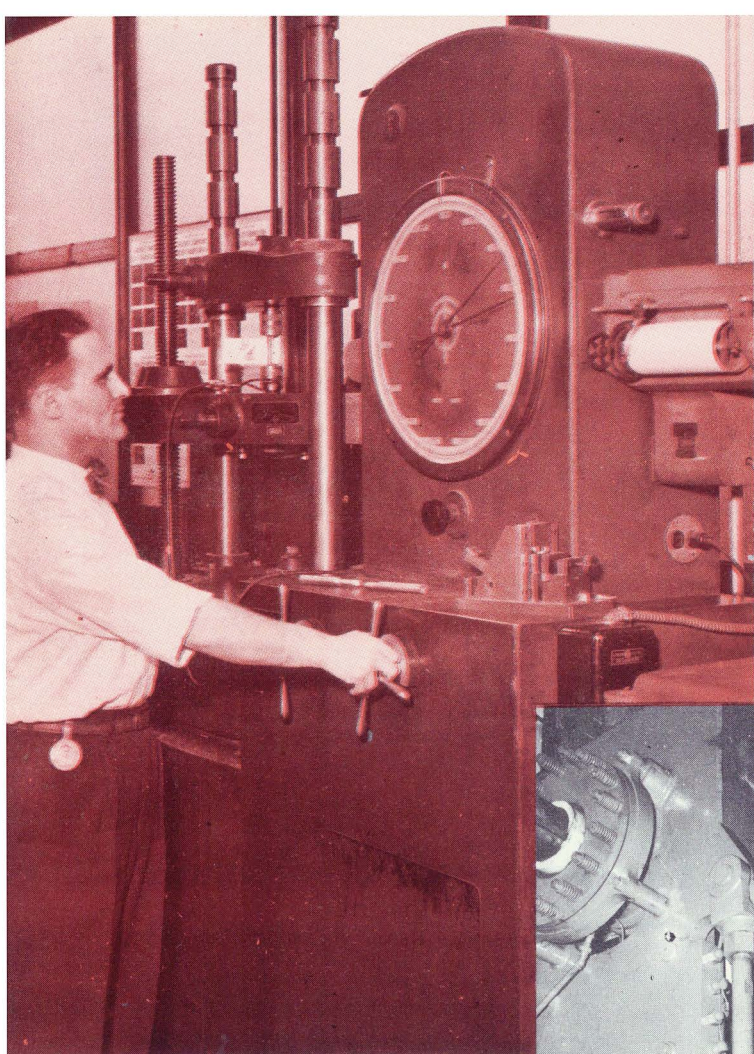
Now that you've replaced the old with the new, it is important that you register your new plate number at the guard houses. Plant Protection maintains a registration record of every car using the parking lots, thus making it possible to quickly locate car owners in the event of an emergency.

In the event that you forget to turn off your car lights, if your auto radio has been left on—or if any emergency situation, such as a fire in your car, should develop, you will be promptly notified. It is to your advantage to register your car with Plant Protection, so take care of this matter now.

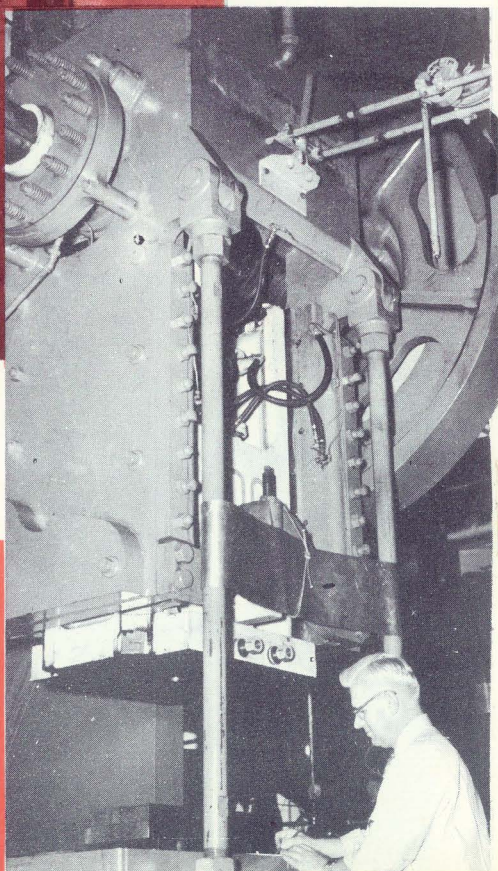
My family and I wish to express our appreciation and thanks to all those who contributed so freely after our misfortune. Particularly thanks are due my co-workers in Dept. 87 for their efforts in our behalf. —
Raymond Johnson.

From Research Lab to Production Line

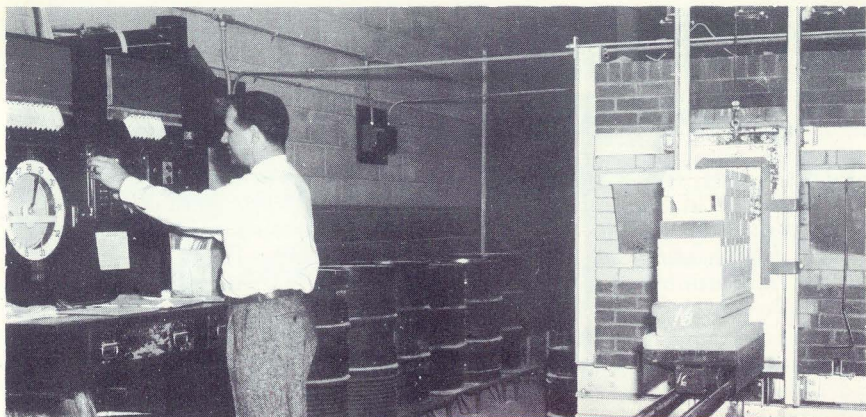
**Story on
Pg. 10**



In the Metallurgical Laboratory, Jim Zaharis is pictured testing the tensile strength of various metals which go into Scintilla products.

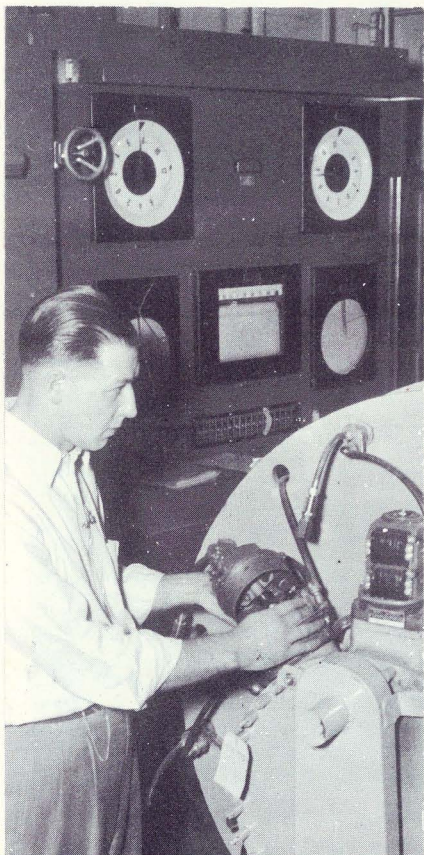


Giant 200-ton press in Dept. 27 dwarfs Tool Designer Erwin Jackle as he takes notes which will assist him in designing a tool for it.



Ceramics Engineer Ed Rogers checks the controls which operate the kiln where Scintilla's ceramic parts are burned. Corner of kiln shows at the right.

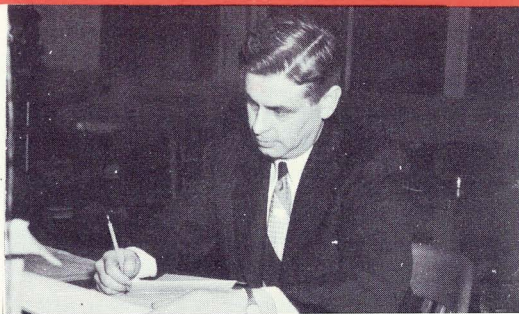
Jess Beach, technician, makes an installation on a test mounting stand prior to making test of low tension system under actual operating conditions.



Engineering checkers like Chief Checker Danny Bibeau, pictured here, have to know Scintilla products inside and out to make sure every blueprint and drawing is complete. Prior to becoming checkers they usually gain several years experience in design and development work.



Sales Engineer S. B. Merritt is pictured as he checks data pertaining to the development of a product required to meet a customer's specific application.



From Research Lab to Production Line, Engineering Has Many Phases Here

WHEN you couple the creative genius of an outstanding engineering organization with the experienced workmanship of precision-skilled craftsmanship you formulate the basic qualities that have made Scintilla the most trusted name in ignition. Since 1925, when an engineer and a handful of manufacturing men began turning out the first Sidney-built units at a production rate of ten magnetos a month, Scintilla people have always worked hard to merit this trust. One proud achievement after another, beginning with the Scintilla magnetos that sparked Lindbergh's "Spirit of St. Louis" across the stormy Atlantic, has brought world renown to our distinguished name.

Great things have a habit of happen-

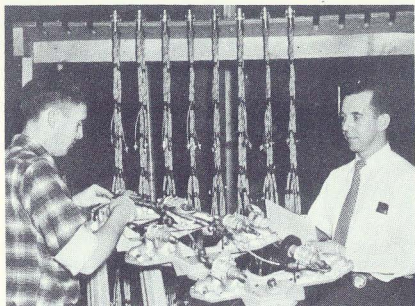
ing here, where Scintilla's men of engineering are continuously exploring new avenues of research in many exciting fields. In little more than a quarter of a century Scintilla's activities have been expanded from a single magneto model to our extensive product line of today. And the same aggressive pursuit of new ideas . . . new products . . . new improvements . . . new fields . . . that made all of this possible is still on the job, unlocking new doors every day that lead to even greater promises.

Due to our widespread diversification of products in several fields, Scintilla utilizes virtually every type of engineering talent.

Methods Engineer Andy Straka checks improved method of assembly in which small tool was devised to facilitate

handling of tiny sockets and clips. Pictured with him is Marjorie Fingar of Dept. 48.





Jim Hiscott, time study engineer, makes a time study of operation being performed by Harry Osborne of Dept. 47. Harry is pictured assembling bumpers on a low tension bank harness.

EASTONETTES

We prized our TV above all, until our friends dropped in to call . . . For one by one—right from the start, they'd pick our picture all apart . . . How could we stand the "streaks" and "snow," and what made the picture "flutter" so? . . . They'd give each knob a turn or two, 'til naught but light came seeping thru . . . Each one so better versed than me, to readjust our old TV . . . All still amazed that we're content to view our single channel set . . . For they bring stations in galore, from here to far off Singapore . . . We can't do that, but still won't waver—for ours brings in surrounding neighbors.

—By Ken Easton

Scintilla Host To Bendix Inspection Group

Scintilla was host to representatives from several Bendix divisions on January 19-20, when the Bendix Inspection Committee held its third meeting. Previous meetings have been held at the Bendix Radio and Eclipse-Pioneer divisions.

O. W. Hitchcock, Scintilla's quality manager, is chairman of the Bendix committee which also includes members from the Friez Instrument,

Red Bank, Eclipse-Pioneer, Utica, Montrose, Bendix Radio and Pioneer-Central divisions of the Corporation.

In addition to Mr. Hitchcock, other Scintilla personnel taking part in the meeting were Douglas Davidson, Phillip Allen and Arthur Rudolph

Veteran TWA Pilot Speaks at Supervisory Forum Meeting

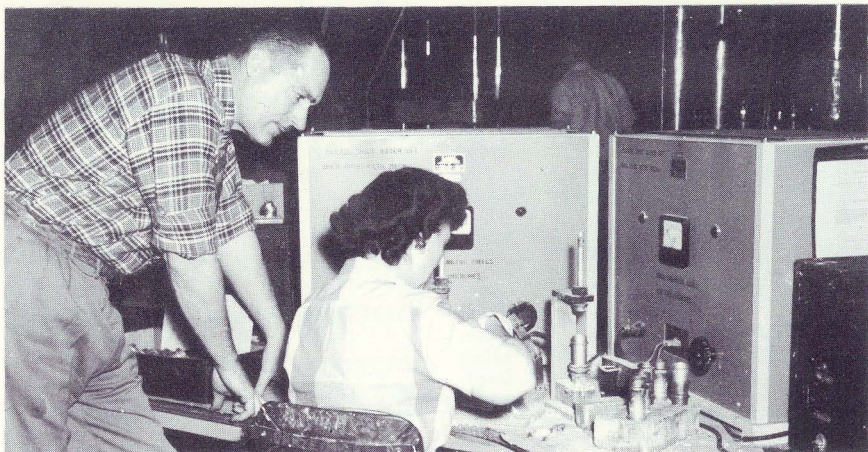
Capt. C. J. Kratovil, veteran TWA pilot, was the guest speaker at a dinner meeting of the Scintilla Supervisory Forum on January 26th.

Following a dinner in the American Legion Home, Capt. Kratovil gave a graphic portrayal of the life of an overseas pilot. The TWA pilot, who has made numerous trans-oceanic flights, supplemented his talk with a color film showing the complete story of a TWA flight from New York to Paris. He was introduced by Thomas Z. Fagan, director of advertising & public relations.

Gary Gray, president of the Forum, presided at the meeting. Richard Waring is program chairman of the supervisory group.

Capt. Kratovil, guest speaker at the January meeting of the Supervisory Forum, is pictured below with Mr. Fagan on the left and Mr. Gray at the right.





Climbing Scintilla's Ladder . . .

Four promotions have been announced at Scintilla recently:

Edward Doi and Orel Orvis, both of Dept. 5, were promoted to Senior Methods Engineers. William Lord, Dept. 90, and Orson Carpenter, Dept. 9, were promoted to Project Engineers.

Edward Doi uses a temporary methods fixture as he seeks way to develop method for separating molded sleeves from gate and sprue.



Orel Orvis observes operation of recently developed method for induction silver brazing on a dual setup using automatic timers. Also pictured is Gertrude Gesell of Dept. 32.

Orson Carpenter works out a problem in design at his drafting board in Dept. 9.



William Lord busies himself with a stack of blueprints in the Engineering Department.

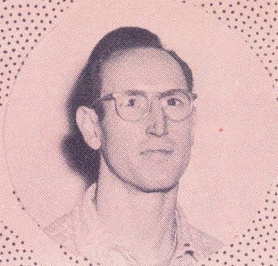
SUGGESTION AWARD



Louis R. Pittet
Dept. 12
\$40.00

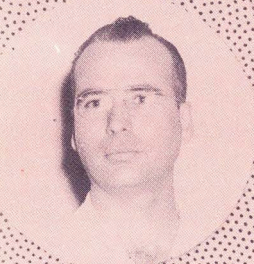


Clara Amerose
Dept. 99
\$6.75



George A. Smith
Dept. 30
\$25.00

WINNERS



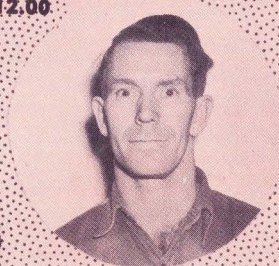
Harland Alberto
Dept. 30
\$5.00



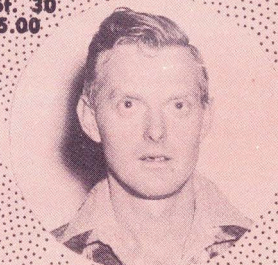
Robert W. McPeck
Dept. 29
\$12.00



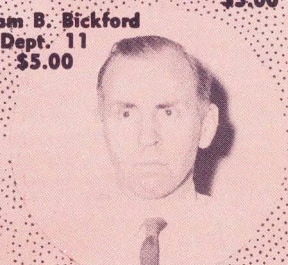
Albert Rogers
Dept. 30
\$5.00



William B. Bickford
Dept. 11
\$5.00



John Pehli
Dept. 28
\$5.00



Ross C. Edwards
Dept. 99
\$5.00



BARTER COLUMN

A service for employees of Scintilla Magneto Division, conducted without charge. All articles advertised must be the personal property of the employee. Ads of a commercial nature are not acceptable.

FOR SALE: 1950 "Super Ten" Mercury outboard motor, complete with tiller bar and remote throttle control. In almost new condition; will accept smaller motor in trade, or cash. H. Silvernail, Phone Unadilla 3765.

FOR SALE: One 14" Emerson television set, with aerial, booster and 60 feet of lead wire. In excellent working condition, \$110.00. Also, heavy duty Porter Cable sander and edger set, \$265.00. Contact Betty Hulbert, Greenlawn Avenue, Bainbridge. Phone Bainbridge 3491.

FOR SALE: Used davenport, in fair condition; \$10.00. Clark Darling, 28 West Main St. Phone Sidney 6343.

FOR SALE: Norge Oil Burner Home Heater, \$75.00; used six months, cost \$140 when new. Phone Sidney 6111, or Sidney 4954.

FOR SALE: 35mm German Contax III camera, F-2 Sonnar lens, case, filters, sun shade, etc., condition perfect. Also 35 mm Grant triple condenser enlarger, 20 diameters, F-3.5 lens; Ansco studio tripod, enlarging easel, two red lights, electric timer, old 5 x 7 double extension copying camera, and plate holders. K. A. Aitken, 12 Watson, Unadilla. Phone Unadilla 3711.

FOR SALE: Lady's new "Season Master" grey gabardine coat, size 16. Phone Sidney 7905 after 4:00 p. m.

FOR SALE: Set of Ludwig drums, in good condition, priced very reasonable. Martin C. Bovee, R.D. 1, Walton. Phone Walton 29Y12.

FOR SALE: Used Tappan gas stove, with stainless steel oven and trim, electric clock and timer; in excellent condition. Walter Benedict, 51 Delaware St., Sidney.

FOR SALE: Cottage with electricity and electric range, nice lot fronting on Unadilla River and Route 8. Reasonable price, terms if desired. Walt Merritt, Rockdale, N. Y. Phone Sidney 5362.

FOR SALE: Juvenile wardrobe, little used; door needs slight fixing. \$5.00. J. T. Lansing, Phone Sidney 3311.

FOR SALE: One pair of skis, complete with ski poles; in good condition. Phone Sidney 3701.

FOR SALE: One pair of Helios verniers, like new. Howard Fell, Phone Guilford 6-2104.

I wish to thank the Scintilla Management for their flowers, and also the supervisors, foremen and friends on the 2nd Shift for their gifts and cards; also the inspectors in Departments 34, 40, 47, 48 and Small Parts. I also want to thank all those who visited me while at the hospital and who came to visit me at my home.—Gordon Berger.

Words can not explain how grateful I felt at the thoughtfulness and generosity of my co-workers on the 3rd Shift, Depts. 48, 99 and several others at the time of my accident. Many thanks to all of you.—Ruth Sheldon & Family.

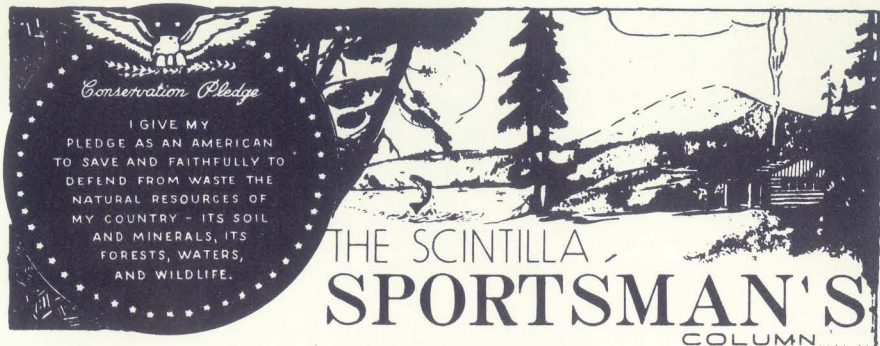
I wish to thank the Scintilla Management for the flowers which were sent to me; also my Scintilla friends and co-workers for their cards which were received while I was a patient in the Delaware Valley Hospital. —Russ Davidson.

I wish to express my sincere thanks to The Management for the lovely basket of fruit sent to me while I was in the hospital. I also wish to thank each and everyone in Dept. 47 for remembering me so generously while I was sick. Thanks again to all of you. —Earle Benedict.

We wish to thank our many Scintilla friends for their thoughtful expression of sympathy at the time of our recent bereavement. —Harold A. and Russ Elander.

Your thoughtfulness and good wishes are greatly appreciated.—Marjorie C. Stevens.

I take this opportunity to thank the Scintilla Management for the sunshine basket sent to me while at the hospital. I also want to thank my co-workers in Tool Inspection for the many cards and flowers I received. To my host of friends throughout the Scintilla Division, may I say thanks for the flowers, smokes and cards with words of cheer received during my recent illness. I want you to know that they were appreciated.—Roland L. Barratt.



By FORREST WATERS

THE spare moments of many men are now occupied in preparation for the opening of trout season a couple of months hence. The tackle counters are busy selling and answering numerous inquiries regarding equipment which will make the coming season a success. You just know, if you had that new rod, the fish would succumb to a bare hook.

Among the fraternity of fishing enthusiasts there are those brethren who would like to push aside the veil of mystery surrounding the use of flies in trout fishing. Many times men have told me they would like to try fly fishing, but are reluctant to make the transition from bait to the artificial because they feel they can't cast, and know little or nothing about fly patterns.

In the case of casting, if you have average reflexes, you can master the basic principles in a very short time. A good rod and — most important of all — a line that matches the rod, plus a reel to hold the line, and you are in business. The many national publications that cater to the sportsman often have the casting technique illustrated for convenience. Follow this technique closely and practice. Don't feel conspicuous if you are having trouble, for the vast majority of fly fishermen are not *good* casters. This is true because they ignore the standards developed by the outstanding casters down through

the years.

Pattern your casting to the illustrated method and don't try to substitute some little trick of your own. After you have completely mastered the proper method and understand thoroughly the mechanics, you may then, perhaps, work out some little individual touch—if you feel you must have one.

Uppermost in your mind should always be that in fly casting the line is the weight, the rod the catapult, and the fly an incidental necessary to catch the fish. The opposite is true in bait casting, where the lure is the weight, the line a means of control and the rod again the catapult.

The line must be selected for your rod; there is no general rule. The manufacturer's recommendations are a guide only, as two rods made by the same manufacturer, of the same length and ferrule size, may take two different weight lines. Try various lines on your rod until you find the one that will bring out the built-in qualities of your rod.

Remember it is discouraging to try to cast with too light a line, and it is disastrous to the rod if you select one too heavy. A line that is too heavy will place undue stress on the rod and, in the case of bamboo, will cause separation of the section and break down the fibres.

Salute to Service

Celebrating Ten Years of Service With Scintilla

Name	Dept. No.	Anniversary Date
Nathaniel F. Decker	6.....	January 11
Frederick E. VanVoorhis	70.....	January 5
Howard C. Blanchard	72.....	January 25
Gerald V. Gregory	74.....	January 25
Gladys A. Chantler	80.....	January 18
Sybil H. Peck	94.....	January 18
Richard R. Warring	98.....	January 11
Helen E. Pearsall	7.....	January 29
Arnold L. Pinney	11.....	January 8
Ralph W. Robinson	12.....	January 22
Ernest E. Hotchkiss	26.....	January 18
Donald J. Baldwin	27.....	May 29
Cleve K. Davenport	29.....	January 13
Harland V. Alberta	30.....	January 23
Raymond D. Sisson	32.....	January 27
Allen Welton	92.....	January 4
Mary K. Shattuck	38.....	January 13
Joseph Sprague	47.....	January 9
Gertrude L. Bailey	47.....	January 8
Nellie V. Plosky	47.....	January 15
Vada L. Hughes	48.....	January 20
Henry F. Carpenter	92.....	January 15
Mars S. Hillis	99.....	January 27
Bernard Hartwell	99.....	January 6
Ellen P. Kaul	99.....	January 11
Mabel C. Myers	99.....	January 3
Bernice L. Tremlett	99.....	January 1

SCINTILLA MAGNETO DIVISION
BENDIS AVIATION CORPORATION
P. O. Box 168
SIDNEY, NEW YORK, U.S.A.

Sec. 34.66 P.L. & R.
U.S. POSTAGE
Paid
Sidney, N. Y.
Permit No. 63

MR. F. G. CLEVELAND
FRANKLIN DEPOT
SIDNEY CENTER
N.Y. R.D. 1