

# The Scintillator

November, 1952





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 November, 1952 No. 5

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

CONTRIBUTORS  
Employees of Scintilla Magneto Division



Wendell Bachman, Service Department artist who paints neckties for a hobby, is wearing a flashy number these days that really scintillates. The man with the brush has decorated one of his ties with a lot of tiny characters that symbolize Scintilla. Complete with the Bendix trademark, several typical "pips" of the type that appear on our ignition analyzer screens, sparks, contact points, condenser, and magneto gear, he's even painted in a few soaring electrons for good measure.

#### Mr. Benedict



Two more Scintilla men retired last month, bidding farewell to their co-workers and a pleasant association of many years as members of this Division. They were Lee Benedict, Dept. 5, who has been with Scintilla more than 20 years, and Fred W. Larson of Dept. 38, a member of this Division for close to 10 years. Each of these men left the plant last month with the best wishes of numerous Scintilla friends ringing in their ears.



Mr. Larson

A largemouth bass that weighed six pounds and an ounce won Experimental Supervisor Harold Pendorf an award medal recently in the forty-second annual Field & Stream Fishing Contest. The bass measured 22 inches and was taken on July 1, 1952, at Crystal Lake where Harold has his camp. A certificate of award accompanied the medal. In connection with the Field and Stream contest, only largemouth bass weighing over 5 pounds were eligible for entry in this category.

Harold Pendorf is shown here with the largemouth bass that won him an award medal in the Field & Stream Fishing Contest.



## BEHIND THE COVER

The pilgrims of today are the hunters who venture forth on a frost-coated morn in quest of game to grace the Thanksgiving Day table. But the birds they'll set their sights on are more likely to be ducks, rather than the turkeys that inhabited the woodlands of early day America in large numbers.

November, as a rule, is a good duck hunting month, and foul weather is almost a tradition with duck hunters. Only the hardest of the lot, however, are willing to patiently sit for hours in bone-chilling cold and wind-pelleted rain, sleet and snow.

Our two hunters on this month's cover are members of the vast invading army that is pushing its way into the marshes at this time of year. As you can see, this particular hunt has been a success—and one successful day afield makes up for all the blanks in the past.

You can be sure that these two have carefully recorded the events of the day in their memories, as well as on film. Here, now, is food for the Thanksgiving table — and fuel to feed many fireside conversations in all the years to come.



In photo above, visiting Japanese industrialists are flanked by Scintilla and Bendix men. Picture includes L. W. Trees, G. J. Knudson, W. A. Uline, R. Boyer, Jr., and M. G. Douglas of Scintilla, and Messrs. Correa and Borheck of Bendix International Division.

## Japanese Industrialists Visit Scintilla

Ten high ranking Japanese industrialists, members of a Joint Japanese Government Aircraft Industry Mission to the United States, included Scintilla in their itinerary of prominent American manufacturers last month, spending a full day here with plant officials on October 24th.

As a prelude to a plant tour led by Factory Manager Walter Michel, the visitors were conducted to General Manager George E. Steiner's office for a discussion concerning Scintilla products. Various phases of the meeting in Mr. Steiner's office were presented by W. A. Uline, industrial sales manager; L. W. Trees, service manager; and R. Boyer, Jr., analyzer sales coordinator. The group adjourned to the cafeteria at noon for a luncheon, following which the plant tour took place.

The Japanese Aircraft Industry Mission is surveying various industries with the object of securing licenses for the manufacture of equipment and the ultimate servicing of American aircraft based in the Far East. Members of the Aircraft Industry Mission have previously visited four European coun-

tries. They also visited Bendix's Eclipse-Pioneer Division in Teterboro, N. J.

The Japanese who took part in the visitation to Scintilla last month hold responsible positions with such industries and agencies as the Mitsubishi Heavy Industries Co., Ministry of International Trade and Industry, Fuji Industrial Co., Kawasaki Machine Works, Skin-Meiwa Industry Co., Showa Aircraft Co., Shin-Fuso Metal Industry Co., Shin-Aichi Industry Co., and Iimo Kaiun (IKK S.S. Co.). Arrangements for their visit here were handled by M. G. Douglas.

### DEADLINE

Copy and photos to appear in the December issue of *The Scintillator* must be submitted for publication prior to—

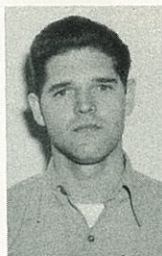
### NOVEMBER 28

Written material, signed by the contributor, should be addressed to *The Scintillator* Office. Story tips are always welcomed by The Editor, who can be reached by dialing Ext. 505.





**Brannick**



**Bennett**



**Waldron**



**Mazzarella**



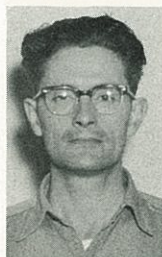
**Pittet**

## Twenty-one Graduate Apprentices Guests of Honor at Dinner Given by Scintilla

**Jones**



**Fancher**



**Houghtaling**



**McGinnis**



**Gregory**



**Beggs**



### Certificate of Completion of Apprenticeship

SCINTILLA MAGNETO DIVISION  
BENDIX AVIATION CORPORATION  
SIDNEY, NEW YORK

THIS IS TO CERTIFY THAT

\_\_\_\_\_ has served an apprenticeship at the trade of \_\_\_\_\_ and has with merit completed all requirements of the training program as established in the Apprenticeship Standards Agreement to qualify as a Journeyman \_\_\_\_\_

Given at Sidney in the State of New York  
this \_\_\_\_\_ day of \_\_\_\_\_ A.D., 19 \_\_\_\_\_



General Manager

Director of Industrial Relations



**Diffenderfer**



**Doi**



**Doud**



**Dunn**



**Plankenhorn**

Eleven graduate apprentices who in recent weeks have reached journeyman status at Scintilla were honored at a dinner given by the Division on Wednesday evening, November 12th. Close to 50 guests were present in the Victory Restaurant's Rose Room to witness the presentation of graduation certificates and hear an address on "The Significance of Apprenticeship" by Dr. Lynn A. Emerson, Professor of the New York State School of Industrial and Labor Relations at Cornell University.

David E. Greelis, director of the New York State Apprenticeship Council, presented each of the new journeymen with a New York State Apprenticeship Council Certificate. Scintilla certificates were presented to the group by General Manager George E. Steiner, while Amand Heck, business agent of Sidney Lodge No. 1529, International Association of Machinists, made the presentation of I.A.M. certificate cards.

The graduating apprentice group included Harold Beggs, William Bennett, Vincent Brannick, Harry Fancher,

Kermit Gregory, James Houghtaling, Harry Jones, Bernard McGinnis, Louis Mazzarella, George Pittet, and Clifford Waldron.

In addition to the members of the Apprentice Graduating Class, ten other former apprentices were also honored by the Division at the dinner. These were Kenneth DeMott, Richard Diffenderfer, Edward Doi, Robert Doud, William Dunne, Kenneth Harris, Alex Launt, Matthew Plankenhorn, Charles Strain and Louis Wyss, all of whom completed their apprenticeship training at Scintilla as members of a previous apprentice group.

Training Supervisor Carlton Dwight, acting as toastmaster, introduced Dr. Emerson and several other honored guests. Brief remarks were made by Hugo Petersen, training director of Bendix Aviation Corporation; Walter Michel, factory manager; and Donald S. Jones, director of industrial relations. Roland L. Barratt, foreman of Tool Inspection, led group singing during the dinner.

At the present time 14 young men

**Continued on Page 13**

**DeMott**



**Strain**



**Launt**



**Harris**



**Wyss**







Roving eye of the camera takes in overall scene at November 1st dinner recognizing excellent highway safety record of Scintilla drivers.



## Accident Free Records of Scintilla Drivers Win Recognition and Awards

Two Department 82 men, each of whom has clocked more than half a million highway miles without a single accident over an 11-year period, were among a group of ten Scintilla drivers honored by the Division at a Safe Drivers Dinner, held at White Store Hotel on Saturday evening, November 1st.

They were John L. Davis and Ferris D. Edwards, who were presented with gold Safe Driver Emblems. Two other Scintilla drivers, Carlton C. Crandall and Chauncey C. Conklin, received silver emblems in recognition of safe driving records extending over a two year period.

In addition to the above, a group of six were presented bronze Safe Driver Emblems for one year safety records on the highways. They were Clyde Tiffany, Wilson Cordner, Lloyd I. Brower, Wesley A. Colyer, Parley E. Harris, Robert V. Constable.

The presentations were made by K. A. Aitken, department head, in the presence of George E. Steiner, general manager, and E. M. VanName, staff assistant, both of whom were guest speakers. Bernard Mathewson, foreman, and Mechanics George R. Wilson and Robert Wheeler were also guests.



## Radio Club Invites New Members

The Sidney Amateur Radio Club holds regular monthly meetings at 8:00 p. m. on the third Monday of the month at the Sidney Recreation Center. All interested persons are welcome to attend these meetings. In addition, code practice sessions are conducted two nights a week at the homes of various members.

For more information regarding time and location of these meetings, contact Jake Schroh, secretary, or George Horton.

All licensed amateur radio operators or prospective operators are urged to contact Mr. Schroh, as their station facilities and operating ability should be enlisted with both ARRL Amateur Radio Emergency Corps and the New York State Civil Defense Commission. Only through a well organized and trained net can we best help our community and country in an emergency. —By Vaughn Herrick, Dept. 91.

## SAFE DRIVERS

Mr. Aitken pointed out that at the present time Scintilla drivers, as a group, are averaging more than 45,000 miles per month. The average driver here drives in excess of 1,000 miles a week, he said. The accident free record of the department is based on 50,000 miles per year for each driver.

**John L. Davis and Ferris D. Edwards, who hold accident free driving records extending over 11 years, had good reason to smile as they received gold Safe Driver Emblems.**



### TO ALL EMPLOYEES:

You will read in this month's **SCINTILLATOR** a short article about the wonderful record, without a single accident, established by our automobile and truck drivers — this over a large number of years.

The Safety Organization, under Mr. VanName, is constantly, and diligently working for a better safety record, and I would like to take this occasion to remind all concerned to have more of a real personal interest in our safety program in the same manner as our drivers have done for such a long period of time.

I would like to reiterate my congratulations to our drivers for the wonderful record they have established through difficult and long driving conditions and also to the men concerned with the maintenance of our rolling equipment which has helped to maintain such an outstanding record.

G. E. Steiner.

People are like elevators. We lift or lower others—to the level we are on.

A recent traffic study showed that a city motorist has to make some 50 major decisions every 10 minutes.

City mice are home-bodies, it seems. Three Wisconsin University researchers marked the mice they caught, released them, and then re-trapped them. Most of the mice were caught a second time within 12 feet of their first fateful nibble. (Take traps to the mice; don't expect them to travel far for your bait.)



SAE Membership Certificates are presented to three Scintilla men by C. B. Spase, chairman of the Syracuse Section. From l. to r.—Mr. Spase, J. T. Lansing, Frederick Hanni (accepting certificate for his father, Herman Hanni), Thomas Z. Fagan, and Executive Engineer Walter Spengler, who is chairman of the Sidney Chapter of SAE.

## Scintilla Men Honored at SAE Dinner Meeting Held in Sidney

Four Scintilla men were honored last month with the presentation of SAE certificates citing them for many years of membership in The Society of Automotive Engineers. Three of the presentations were made by C. B. Spase, chairman of the Syracuse Section, at an SAE dinner meeting in

Mr. Spengler, left, presents membership certificate for 35 years-plus to A. J. Poole, Sr., who was unable to be present at SAE dinner in Sidney. Mr. Poole's actual SAE membership extends to 42 years.



Sidney on October 3rd.

Twenty-five year certificates were awarded to J. T. Lansing, Sales Department (Fuel Injection Section); T. Z. Fagan, director of advertising & public relations; and Herman Hanni, former general manager. In the absence of Mr. Hanni, who was unable to attend due to illness, Frederick Hanni accepted the SAE certificate for his father.

A fourth Scintilla man, Fuel Injection Sales and Service Manager A. J. Poole, Sr., was also unable to be present at the October meeting and receive his membership certificate for 35 years-plus. Mr. Poole, whose SAE membership actually extends to 42 years, was presented with his certificate the following week by Executive Engineer Walter Spengler, chairman of the Sidney Chapter of SAE. Mr. Poole, who was an SAE vice president in 1930, organized the Society's Diesel engine activities in 1928.

Scintilla's eighteen SAE members were hosts at the October meeting, first



in the history of the Society ever to be held in Sidney. Another SAE meeting in Sidney is tentatively being planned for this Spring.

Glen H. Dingman of Engineering was dinner chairman at last month's meeting which featured an address by Charles H. Sawyer. Mr. Sawyer's topic was "The Evolution From Old Autos to New."

Scintilla has been represented in the Syracuse Section of SAE for many years and, in addition to the men previously mentioned, the following are also members:

C. V. Brack, R. B. Clark, J. E. Dahl, L. J. Elliott, S. E. Gregoire, R. Mangold, C. F. Maylott, D. B. Morse, O. L. Sokol, T. Tognola, L. W. Trees, H. C. Walters, and W. Canfield.

## Physicist Joins Bendix Aviation

Dr. Urner Liddel has joined Bendix Aviation Corporation to direct product development in applied physics and atomic energy, L. A. Hyland, vice-president in charge of research, announced in Detroit recently.

Dr. Liddel has most recently been chief of the physics branch of the U. S. Atomic Energy Commission. Before that he served as a civilian in the Office of Naval Research where he was head of the nuclear physics branch and, later, director of the Division of Physical Sciences.

A graduate of Central College, Fayette, Mo., Dr. Liddel received his Ph.D. from George Washington University. He is a Fellow of the American Physical Society and the New York Academy of Sciences.

Before the war he was employed in the research laboratories of the Department of Agriculture and the American Cyanamid Company.



## Tognola Heads Research Activities At Scintilla

Greatly expanded research activities at Scintilla have resulted in the appointment of Tullio Tognola as Chief Engineer—Research, according to Executive Engineer Walter Spengler.

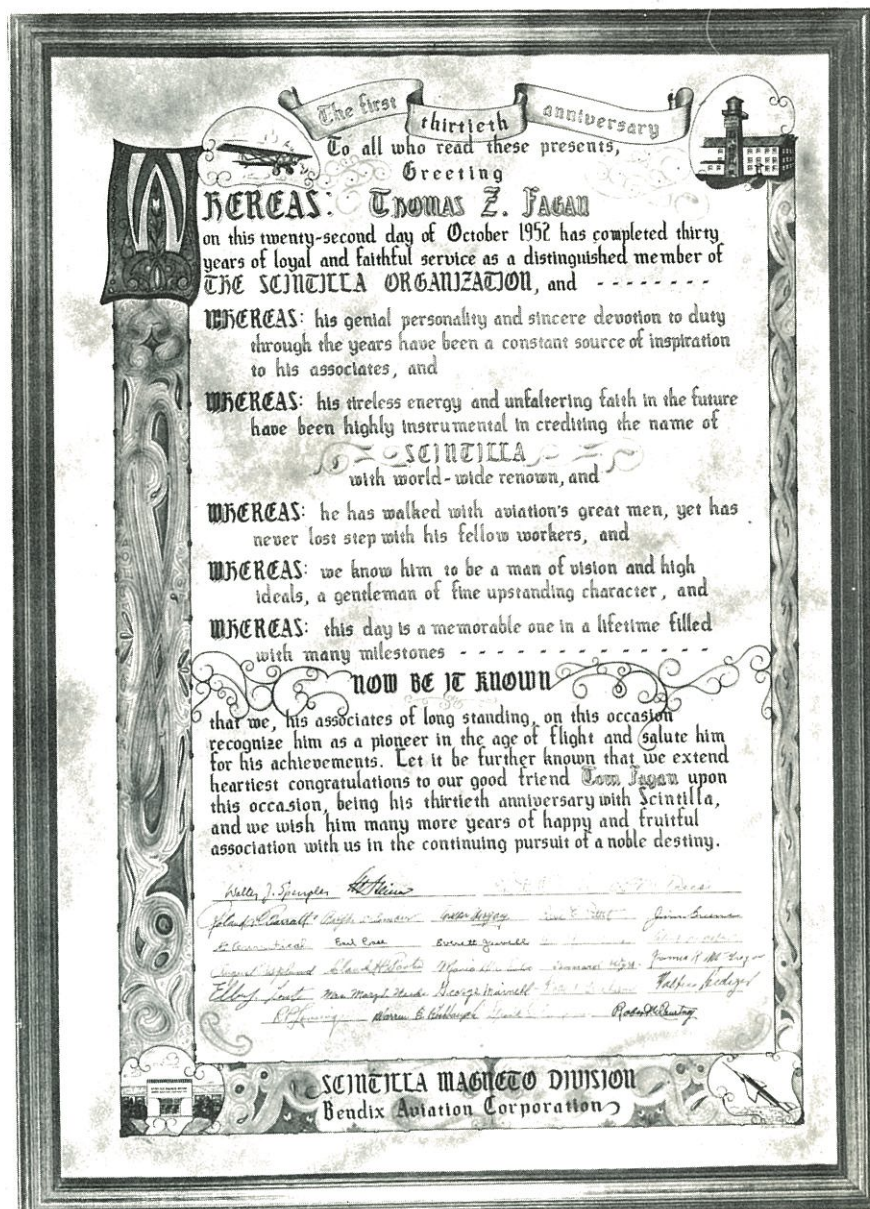
In announcing the new organizational setup for Engineering Research, Mr. Spengler pointed out that great advancements in jet ignition have been made at Scintilla during the past several years. He also mentioned a number of other projects, commenting that developmental work in connection with such products as the Ignition Analyzer, radio filters, condensers and coils has been equally outstanding.

Mr. Tognola, who has been with Scintilla for the past 23 years, reports to Mr. Spengler and H. C. Walters, Chief Engineer—Electrical Devices. Louis Segall and Carlton Maylott, both of whom were recently promoted to Assistant Chief Engineer—Research, will report to Mr. Tognola.

Time works for you when you save with Payroll Savings.



# Tom Fagan, Thirty Year Man



Tom Fagan, first man to celebrate thirty years of service with Scintilla, accepts testimonial scroll commemorating the event from General Manager George E. Steiner, who is pictured at the left.

THE morning of October 22nd was like a lot of other Wednesday mornings at Scintilla — a little gray at the edges, perhaps, but that's to be expected at this time of year.

There were the usual sounds and activities that breathe life into a factory building; the steady hum and bustling routine of shop and office created by more than 4,500 people pressing buttons, turning dials, operating control levers and doing the hundreds of things—big and little—that give Scintilla a vivid personality of its own. You couldn't help thinking to yourself that it's people who really make a company.

It was that kind of a morning.

Yes, this was a morning like most mornings at Scintilla—busy and productive, with schedules of all sorts to meet. Yet, there was to be one out-

standing exception to this morning, something to make this day stand out.

Shortly after eleven a few men, representative of both shop and office, began gathering in the General Manager's office. There was Mr. Steiner and Mr. Michel. Glen Fical, Al Poole, and Don Jones. Dick Clark, Ralph Cumber, O. W. Hitchcock, L. W. Trees, and Tullio Tognola. E. M. Van-Name, Bill Campbell, G. C. Cottrell, and Bill Uline.

They were assembling in Mr. Steiner's office to be there ahead of Scintilla's first Thirty Year Man—Tom Fagan. It was to be a complete surprise to the man who, immediately prior to Lindbergh's history-making flight from New York to Paris in 1927, checked the Scintilla mags on the "Spirit of St. Louis." For two weeks the preparations connected with

Continued on Page 14





When members of the Central New York Purchasing Agents Association visited Scintilla last month, visitation program included plant tours, luncheon at the cafeteria, country club privileges, and a dinner in the Rose Room. Several of the visitors are pictured in these photos.



## Scintilla Host to Purchasing Agents

A one day visitation program at Scintilla on October 22nd was marked by guided tours that took visiting purchasing agents from a widespread area of Central New York "behind the scenes" for a firsthand look at some of the production operations that distinguish Scintilla as one of the most modern precision manufacturing organizations in the world. A total of eighty-seven members and guests of the Central New York Purchasing Agents Association visited the plant throughout the day.

The plant visitation at Scintilla is one of a series being made by members of the Association to various industrial plants in New York State. Clarence L. Kessler of Scintilla's purchasing department was in charge of arrangements for the visitation which included a luncheon in the cafeteria

and ground privileges at the Sidney Country Club.

In the evening the visiting purchasing agents, augmented by Scintilla personnel, met for a dinner-program in the Victory Restaurant's Rose Room. Speeches were given by Thomas Z. Fagan, director of advertising and public relations, and Walter Michel, factory manager. Purchasing Agent W. B. Wilson was toastmaster.

Among the honored guests were A. Kemp Stevens, president of the Central New York Association, and J. M. Austin, vice-president of the National Association of Purchasing Agents. Three Scintilla men are included in the membership of the Central New York Association. In addition to Mr. Wilson and Mr. Kessler, Charles E. Rodgers of Purchasing is also a member.



# Radio on Electric Trucks Now a Reality

Radio dispatching of electric trucks at Scintilla has become a reality in recent weeks, according to Dept. 13 Supervisor Ray Beames. Two of the trucks already have radio installations and it is expected that all eight electric trucks will be similarly equipped shortly, he said.

Under the new system for dispatching trucks, information can be relayed from the dispatch desk to the operator within 15 seconds. Radio dispatching eliminates the use of the PA system for this purpose and does away with subsequent "check-in" calls back to the department. As a result, truck operators can quickly be contacted in any part of the plant. The new method has greatly increased the efficiency of dispatching operations.

The radio system at Scintilla has been set up to have an effective range of approximately half a mile. The operators can send as well as receive messages. Actual dispatching of the trucks is handled by Mary Rose Wilcox.

---

**Mary Rose Wilcox of Dept. 13 pauses in her typing to contact one of Scintilla's electric trucks by means of plant's new radio dispatching system.**



Harvey Bowen



**Operators whose trucks have been equipped with radio can send as well as receive messages.**

---

## APPRENTICE

From Page 5

are enrolled in Scintilla's Apprenticeship Training Program. Earlier this year they embarked upon a comprehensive program consisting of at least 8,000 hours of on-the-job training and at least 576 hours of related classroom instruction. Upon successful completion of the program—in about four years, according to the present schedule—they, too, will earn recognition as journeymen Tool Makers, Tool Makers (Model and Test Equipment), and Machinists (Tool and Experimental).

---

The family and I sincerely appreciate and thank you for your kind expression of sympathy. The basket of roses and glads was truly beautiful and so expressive of your thoughtfulness.—D. O. Thomas.

---

I wish to thank The Scintilla Management for the lovely sunshine basket, my fellow employees of Dept. 34 for their cards and gift, and also my other friends and fellow workers for their wonderful gift, cards and messages . . . especially the card from the old timers. You all helped me so much to endure my illness. I have missed you all and hope to be back with you again before long.—Bob Courtney.

---

I wish to thank my co-workers in Dept. 48 (Pin and Socket Section) for their recent gift.—Charles Ryder.



## TOM FAGAN From Page 11

this "hour of honor" had been kept secret from Tom, the man whose name has been synonymous with Scintilla since the company's inception in America.

The secrecy of the event in itself involved quite an undertaking, for the testimonial scroll they planned to present him had to be signed by all of Scintilla's quarter-century men. These, the signatures of Mr. Fagan's early day Scintilla associates were obtained with carefully guarded caution to prevent a leak in plans to the genial advertising manager's office just a few doors down the corridor.

Came 11:20 and the last of the guests was seated at the long conference table that occupies one side of Mr. Steiner's office. The general manager stepped to a phone and asked: "Tom, are you busy? Can you come down to my office for a few minutes?"

Minutes later Mr. Fagan came striding into the office. From the expression on his face, it was readily apparent to those present that their guest of honor had never suspected a thing. Then followed a brief presentation speech by Mr. Steiner, after which each of the guests spoke. There were no fancy, polished phrases—only sincere, honest words of appreciation to a man who has been one of the cornerstones of the Scintilla organization. It was the kind of a ceremony that, through its sheer simplicity, will live forever in the memory of the fourteen men who gathered to recognize the first Thirtieth Anniversary at Scintilla.

In reply, Tom Fagan had very little to say. For once in his life, words failed the man whose eloquence is always the last word at any Scintilla affair.

---

We wish to thank our many Scintilla friends and co-workers for their generous help and gift of money when our home burned recently.—Mr. and Mrs. George H. Williams.

## Stoll Appointed To High Post

George E. Stoll, vice-president and director of Bendix Aviation Corporation, has been named group executive in charge of the automotive and Mid-western divisions of the company, Malcolm P. Ferguson, president, announced recently.

Stoll, who continues as general manager of Bendix's largest plant, the Bendix Products Division at South Bend, Ind., now also assumes over-all supervision of the Eclipse Machine Division, Elmira, N. Y.; Zenith Carburetor and Skinner Purifier divisions, Detroit; Marshall-Eclipse Division, Troy, N. Y.; Hamilton Division Hamilton, O.; and the Bendix guided missile plant at Mishawaka, Ind. The corporation includes a total of 17 manufacturing divisions and employs more than 40,000.

The new group executive joined Bendix in 1929 as a foreman. He later became superintendent of the heat treating, plating and foundry department of the South Bend plant. In 1942, when Bendix was expanding its production volume about 40 times to meet World War II requirements, Stoll was named general manager of a specially created wartime division at Owosso, Mich. He returned to South Bend as works manager in 1943 and from 1943 to 1946 was assistant general manager of Bendix Products, becoming general manager in 1946.

Stoll has been a member of the corporation's administration committee since 1947. Bendix directors elected him a vice-president in 1949 and a member of the board in 1950.

---

We wish to thank all of our friends on the 3rd Shift for their remembrances during our recent misfortune. At times like this it is nice to know how kind and considerate friends can be. Appreciation can never be adequately expressed. Yet, our sincere thanks are extended to all of those who contributed to make our recovery more pleasant and bearable.—Fred Terebo, Fred Smith and Jack Glavich.



## Celebrating Ten Years of Service With Scintilla

Herman F. Strasznick	28	Sept. 26
Ralph E. McDougal	29	Sept. 6
Edsall J. Fancher	30	Sept. 25
Laverne R. Fink	31	Sept. 29
Charles S. Holmes	31	Sept. 7
Elbert W. Stiles	34	Sept. 14
Clara B. Burlison	38	Sept. 8
Dorothy L. White	38	Sept. 17
Lillian H. Greenman	39	Sept. 8
Millard G. Porter	40	Sept. 26
Charles DePew	42	July 9
Harold A. Drumm	47	Sept. 13
Lynn C. March, Jr.	47	Sept. 15
Alice O. Story	47	Sept. 22
Earle V. Benedict	47	June 8
Laurence R. Getter	48	Sept. 3
Josephine A. Grow	48	Sept. 4
Grace G. Howard	81	Sept. 8
Earl Prouty	92	Sept. 2
Stanley L. Nordberg	47	Sept. 13
Frances P. Baker	1	Sept. 1
Theresa H. House	70	Sept. 19
Edna H. Cook	80	Sept. 13
Sarah O. Jewett	1	Oct. 5
Esther E. Gay	4	Oct. 26
George H. Campbell	17	Oct. 5
William E. Welch	6	Oct. 26
Adelbert J. Kullman	8	Oct. 28
Bernice R. Butts	72	Oct. 1
Phyllis H. Donalio	72	Oct. 1
Robert L. Wharton	80	Oct. 28
Robert L. Hamilton	81	Oct. 5
Donald B. Morse	90	Aug. 20
Harry R. Cole	7	Oct. 1
Samuel L. Jackson	7	Oct. 2
Christen J. Madsen	11	Oct. 26
John A. Plosky	13	Oct. 18
Albert G. Hillriegel	28	Oct. 30
Ernest W. Grimaldi	31	Oct. 2
Durward Mills	31	Oct. 24
Benjamin D. Gloeckler	32	Oct. 29
Ishmeal J. Bradon	33	Oct. 22
Fritz O. Zurbuegg	33	Oct. 2
Gertrude O. Pierce	38	Oct. 6
Regina B. Shaver	38	Oct. 15
Douglas A. Drumm	40	Oct. 19
Wesley Bristol	47	Oct. 3
Marion S. Coulter	47	Oct. 24
William H. Jones	47	Oct. 29
Elmer Babcock	48	Oct. 15
Viola E. Sickler	99	Oct. 19



**20 Years**  
**Howard S. Burlison**  
**Dept. 5**  
**October 2, 1952**

## Salute to Service

**20 Years**  
**Gordon W. Bronson**  
**Dept. 42**  
**September 18, 1952**





# Suggest Your Ideas to:

IMPROVE TOOLING

ELIMINATE UNNECESSARY OPERATIONS

IMPROVE PRODUCTS

SAVE MATERIALS

REDUCE SCRAP

ELIMINATE SAFETY HAZARDS

REDUCE COSTS

ELIMINATE WASTE

INCREASE PRODUCTION

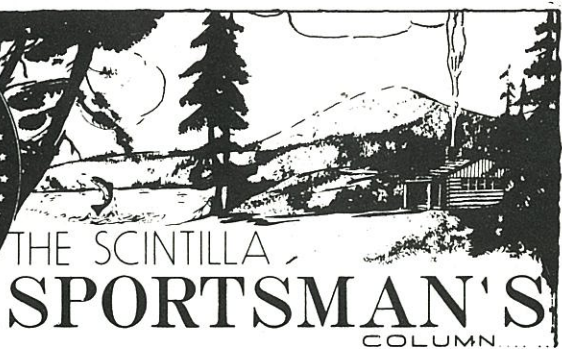
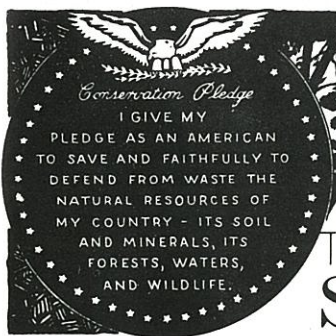
REDUCE REWORK

INCREASE OPERATING EFFICIENCY

## Recent Award Winners:

Karl B. Anderson	Dept. 11	\$ 5.00
Harland Beers	Dept. 48	5.00
Verna Bice	Dept. 99	30.00
Donald Butler	Dept. 44	5.25
Albion C. Farmer, Jr.	Dept. 43	5.00
Sidney Ginsberg	Dept. 39	5.00
Josephine Grow	Dept. 48	10.00
Frank Holley	Dept. 80	5.00
Morris Horton	Dept. 92	11.25
Raoul Ihrie	Dept. 26	56.25
John Pohli	Dept. 28	5.00
Genevieve Romero	Dept. 99	10.00
William E. Stone	Dept. 30	5.00
Orlo Thayer	Dept. 83	29.25
Erwin Truman	Dept. 26	5.00
Ralph Weeden	Dept. 48	5.00





## By FORREST WATERS

**A** BULLET fired in a vacuum (a situation where no air exists) will reach its target at the same speed with which it left the muzzle of the rifle, where the target is located on the same horizontal plane.

A bullet fired in the air of our living world, however, is like the toy boat you drop into a pond and give a heavy push. At once the resistance of the water robs the boat of its original impetus. First it slows up and then ceases to move. It loses speed much more rapidly at the start, when the speed is high. A bullet follows the same law.

We have, therefore, in our bullet a "little boat" that gets a violent push and loses its original speed very rapidly, owing to air resistance.

Because of this loss of speed, it takes more time to cover a given distance than it would if there were no air resistance. The more time it takes to cover a given distance, the more it falls away from its original line of flight. Here is where gravity enters the picture. Gravity exercises the same pull on a bullet traveling 3,000 feet per second as it does on a bullet dropped from your hand.

It pulls a free body downward at a constantly increasing speed, the increase being at the rate of 32 feet per second. If you know the time it takes a bullet to travel a given distance, then

you can find exactly how far the bullet will fall from its original line of flight. A bullet may be rising all the time in relation to the earth, but falling away from its original line of flight.

The bore of a heavy 30-06 rifle without whip, is pointed at a spot 11" higher than the mark at 200 yards, but the bullet—due to the pull of gravity—curves away from the original line of flight until it rises only 2.8 inches higher than a straight line to the mark. Then it continues to fall away until it cuts the straight line at the mark, or target.



Sgt. Walter Starks, a recent visitor at Scintilla, is pictured here with J. T. Lansing of the Fuel Injection Sales and Service Department. Sgt. Starks is an instructor on fuel injection equipment at Fort Eustis, Virginia.





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: Model 94 Winchester .30-30 rifle, 26 inch barrel, used very little; blueing off receiver. Price \$50.00 with 50 cartridges. K. Lawrence, Phone Masonville 2193.

FOR SALE: New 16 mm. Projector. Lena Stingone, 51 River Street, Sidney.

FOR SALE: GE Refrigerator, in excellent condition; \$20.00. Fred Riesen, Phone Otego 4571.

FOR SALE: Glenwood Range, combination oil and gas. Jack Nabinger, Phone Sidney 3947.

FOR SALE: Child's Tricycle, maroon and white, 16 inch front wheel; adjustable handle bars and seat. Phone Sidney 6529.

FOR SALE: Two Goodyear 7:00-15 Snow Tread Tires, nearly new; \$15.00 for the pair. Contact G. Sprague, Phone Sidney 2893.

WANTED: Lightweight 120 Bass Accordion, reasonable; also piano, preferably small. Bernice Talcott. Phone Bainbridge 4574.

FOR SALE: Home seven miles from Sidney on Route 8; four rooms and bath.

Price \$3500. Harold Latham, Phone Mt. Upton 2159.

FOR SALE: Three 7:60 x 15 tires, brand new retread. 79 West Main St. Phone Sidney 4574.

FOR SALE: Philco Refrigerator, six cu. ft.; in A-1 working condition. Norman C. Meagley, Phone Norwich 4-8716.

FOR SALE: Glenwood Combination Kitchen Range, coal or gas. Henry J. Gifford. Phone Sidney 3356.

FOR SALE: Outboard Runabout, 14-foot with double deck; 12 h.p. motor, trailer and accessories. Phone Otego 2071.

FOR SALE: Complete radio shop equipment and stock. Contact Francis Ketter, 16 York Street, Norwich. Phone Norwich 4-3669.

FOR SALE: New 1½ Story House; four finished rooms down, 2 semi-finished up. Oak trim, oil heat and full cellar. Located in Mt. Upton. Walter Uhorchak, Phone Mt. Upton 2144.

FOR SALE: AKC registered cockers, blonde, 8 weeks old, ready to go; will make good Christmas gifts. Bill Taylor, R.D. # 1, Morris.

FOR SALE: Combination, Storm Door, 36" x 7'8", complete with hardware. Price \$15.00. Phone Sidney 8413.

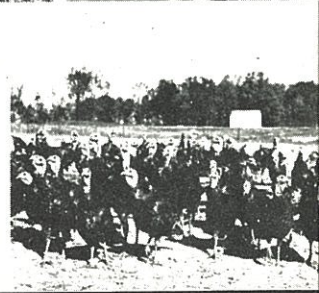
FOR SALE: Ideal Xmas gift for boy of 14 or 41. Complete Lionel train set, includes passenger train, freight train, two engines, station, two electric and two manual switches plus lots of track. All standard gauge and in excellent condition. Norman C. Meakley, Phone Norwich 4-8716.

I wish to thank The Management of Scintilla for the bouquet of flowers which was sent to me while I was a patient in the Delaware Valley Hospital. I also wish to thank my Scintilla friends and co-workers for their cards and get-well wishes.—Kenneth Gladstone, Dept. 31.

I wish to thank my many friends for their cards and gifts which were sent to me during my recent illness.—James L. Smith, Stock CC.

I would like to take this opportunity to thank The Scintilla Management for the fruit basket which I received, and also to thank all the friends who sent cards while I was a patient in The Hospital.—Charles Ashton, Dept. 12.





## LET US GIVE THANKS

For over three centuries Americans have been giving thanks for homes, for bountiful harvests, for security. Today millions of Payroll Savers can give thanks for the security their savings in U. S. Defense Bonds have brought them. Join Payroll Savings today and be able to give thanks for security!





## Something missing in Mary's life?

There's nothing her parents  
wouldn't do for her . . . but  
Mary's missing something.

Only from them can she  
receive the priceless *gift*  
of *Faith* . . . a gift that lasts  
forever, bringing joy and  
comfort, strength and love.

In a world of such uncer-  
tainities, is it any wonder  
so many parents put *Faith*  
above all as their hope for  
all children?

Show them the Way

this week

SCINTILLA MAGNETO DIVISION  
BENDIX AVIATION CORPORATION  
P. O. Box 188  
SIDNEY, NEW YORK, U.S.A.

MR. C. W. BURDICK  
28 BRIDGE ST.  
SIDNEY, N.Y.

Sec. 34,66 P.L. & R.  
U.S. POSTAGE  
**Paid**  
Sidney, N. Y.  
Permit No. 63