## PAGE TWO- SOLL ANNIVERSARY EDITION

## **500th Anniversary** Of Movable Type

An anniversary is worthy of observance, not so much for the event it commemorates as for the consequences of that original impetus and the extent of its achievement. The year 1940 will be observed, by common consent, as the 500th Anniversary of the Invention of Printing from Movable Type because the printed word has contributed more than anything else to the spread of knowledge and the progress of civili-

zation. Two other miletones in typographical history will also be commemorated at the same time. Printing was introduced into the New World at Mexico City in 1539, and the first book produced in what is now the United States was the "Bay Psalm Book" from Staephen Daye Press at Cambridge in 1640.

All these events are rich in mechanical, utilitarian, and historical connotations, but they also represent the major factor in human progress. The two American moments were relatively local and their observance is influenced, in a sense, by pride and sentiment; the original emergence of a new medium of communication was universal in concept and application.

The invention of printing from movable type five hundred years ago was a triumph of mechanical ingenuity but that was the least of its merits. It is the printed word, in circulation and use, that has motivated and developed throughout the past five centuries. No other material function has affected so many activities or radiated so widely to influence humanity. It has replaced ignorance with knowledge, superstitution with intelligence, mental myopia with cosmic vision.

The products of printing have made history and recorded it, learning has erected a wall of proven data fact by cumulative fact, intelligence has woven a pattern of truth and imagination, emotions have been stimulated and brought into poise, taste cultivated and directed-all by - the agency of type and press. The

word of mankind today, the com-

press, built for the London Times. having ten feeding rolls and attaining a speed of 20,000 impression an Lloyd's Magazine, a press, which by hour. In 1908 the Hoes built for er, produced 50,000 complete 32 page magalines an hour-with the folding inserting, cutting, pasting and cover-

ing all done with the same machine. In 1927 the Walter Scott Company has produced a system combining several presses as units of one machine, and such a press, functioning as two sextuples, one octuple and a quadruple, has already attained the unprecedented speed of 192,000 twelve page sheets of 2.304.000 pages in one hour.

The earliest application of chemistry to printing seems to have been made by Tomasco Finiguerra, an artist of Florence, during the lifetime of Gutenberg. Finiguerra, the father of etching, employed the first chemical process for making engravings. Etching is still employed by illustrators as an artistic medium, but its commercial value has long ago been nullified by the invention of more rapid processes.

In 1794, chemistry was again utilized by Alois Senefelder in the in- which photographs or drawing are vention of lithography. Senefelder, being conveyed by radio between an impoverished playright of Mun- points as far distance as San Franich, learned to do his own printing cisco and London. In the very year and one day, while engaged in pol- of the telegraph's birth, K. A. Steinishing a stone slab on which he heil, of Munich, advocated wireless ground inks, his mother entered the communication; in 1897 Marconi deshop and desired him to write her a veloped Steinheil's theories as wirebill for the laundress. No paper be- less telegraphy-later making posing at hand, the bill was computed sible wireless telephony or radio; and on the stone. Some time afterward, on July 6, 1924 the first photo radio when about to wipe the writing from picture was transmitted across the the stone, the idea occurred to Sene- Atlantic, being a photograph of Secfelder to try the effect of aqua for- retary Hughes.

tis on the ink. The result was that In 1848 the stereotype process, at the end of five minutes he found which had in crude form been used the writing so much elevated that in Edinburgh as early as 1739, and from it he was able to take a satis- which Jedediah Howe had introduced factory impression. Thus, alchemy into the United States in 1817, was again triumphed, And though, to be perfected in France. Inconspicuous sure, it was not the long sought at the time of its origin, the stereophilosopher's stone that Senefelder type has in the 20th century become

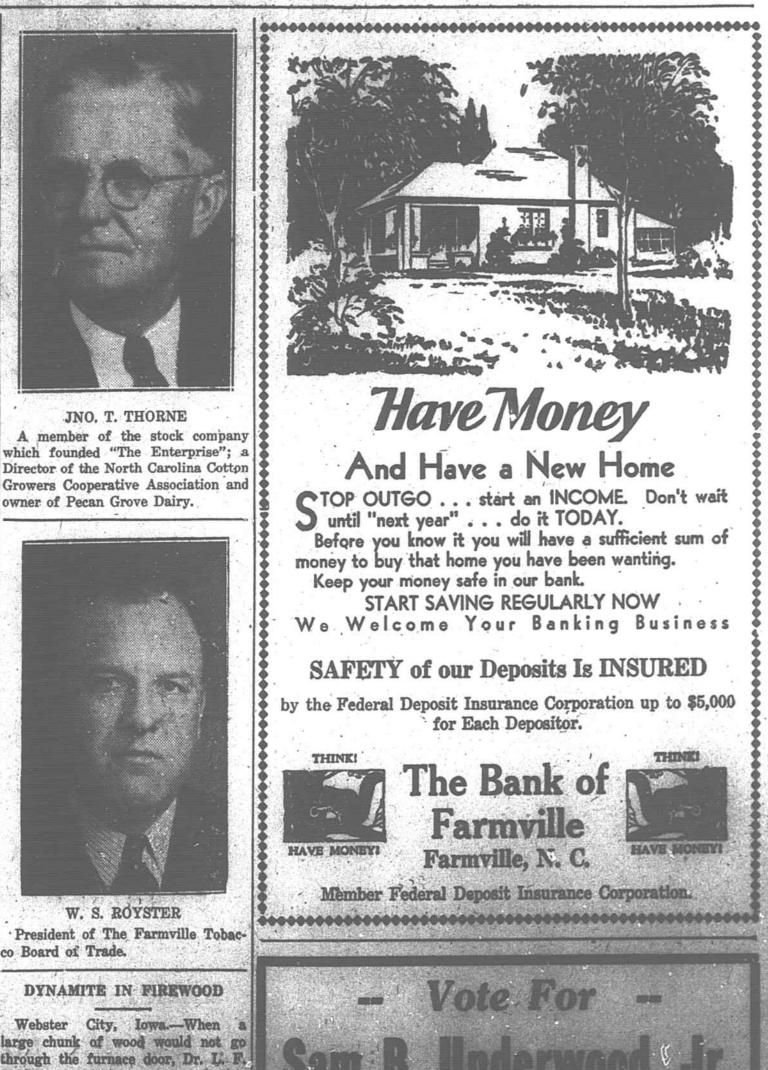
had found, he had brought to light one of the most useful vehicles of one equally as valuable, for upon his printing-especially in the field of discovery, he had brought to light newspaper illustration. . . . From the one equally as vauable, for upon his original idea has developed the padiscovery has been built the modern per matrix, by which practically all of miles and use but one dialect: but lithographing industry-filling 'the syndicated features are now distrib- when thought transmitting machiney world with brightly colored pictures uted to newspapers, and which is will also be standardized in this uniand giving employment, to many nothing more than a piece of card- versal language. thousands of workers,

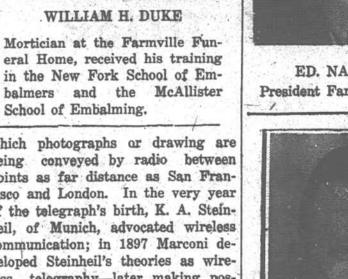
board impresed with words or pic-



FRIDAY, MAY, 24, 1940

666







ED. NASH WARREN President Farmville Rotary Club.



J. H. MOORE Superintendent Farmville Graded School.

Truly the mechanics of duplication through the furnace door, Dr. L. F. In 1815 F. C. Accum initiated some tures while in a wet state, and af- have progressed a long way since Biddleman pulled it out and, to

physical being, exists by virtue of coal tar, then a wasts product of Inthe printed word.

Therefore the fundamental theme of this five hundredth anniversary is "THE RELATION OF PRINT-ING TO LIFE".

500 Years of Printing

plex fabric of mental reality and experiments in the distillation of terwards dried. dia rubber manufacture; and these evitably lurking just around the tinue to multiply with increasing mo- doctor thought it had been placed experiments, the apparently far corner. Here are a few of them: mentum, and tha there will be more there to split the log, perhaps. afield from printing, were asverthe- Television . . . the recording tele- splendid possibilities realized in the less to lay the foundation for the graph . . . the book reading machine. next fifty years than there were Mussolini is the world's most later invention of color photography Books will one day be published in realized during the fifty centuries prominent blackmailer but if his and color printing. Forty one years audible, as well as in visual, form. preceding them. afterward Sr. W. H. Perkins discov- For an evening's reading, the tired ered in coal the first of the aniline business man of the future will have

... 1-4-4-0 - 1-9-4-0 dyes ... Perserving chemists later simply to turn on his favorite book census shows for Farmville the loysucceeded in coaxing from the ebony or newspaper by means of phono- al boosters will be able to show you Here we have the weather and the mineral a veritable rainbow of bril- graphic, radio, or perfrated paper a few thousand additional inhabi- the political comparison both getting (Continued from page 1, 2nd Sec.) liant hues-thereby making possible control; turn down his light and tants.

Gutenberg; but it is not unreason- sur Marvelous new inventions are in- able to think that they will con- a dynamite cap in a knothole. The

Regardless of what growth the doesn't pay, hotter at the same time.

friend Hitler loses the war the Italian dictator may find out that it

"Thank You"

was arrested at sight of a blind the profuse variety of chemical col- settle back with his eyes closed. youth in beggar's garments, who at ors today employed in printing and Microscopic and microphonic books the crunch of approaching footsteps the manufacture of orthochromatic The bookworm of the future may stretched out his hands in mute appeal for the passing stranger's pity. Mungo Ponton later discovered as books will be issued in minute Valentine Hauy was a man with a that certain substances could be ren- form; reproducible by sight or sound

heart of gold, as he could never re- dered insoluable by exposure to light, magnification similar to the present sist the supplications of the destitute, and by this discovery he is entitled day sound magnification of the rehe led the lad home with him to give to be called the father of photo- dio amplfier. The cheapest editions him food and shelter for the night. graphic engraving. The halftone of books, not to mention newsapers For this act of kindness, Francois process, thru which it became pos- and magazines, will be filled with a Lesueur showed so much gratitude sible to develop a photograph on a wealth of pictures in natural colors. that he was given permanent em- metal plate, originated in Munich The recording dictaphone. By this ployment, in Hauy's household. One about 1845, where Meisenbach first invention, words spoken into the dicday while sorting papers of his bene- brought it to commercial notice; but taphone will automatically be trans-

factor's desk, he came across a print- modern inventors, notably Max Levy lated into printed manuscript. Such ed card that had been too heavily in- and F. E. Ives, by the introduction mechanism will also be controlled dented by the type. He showed his of light filters, are responsible for at a distance by radio, so that when master that he could decipher several its present day perfection. the man of the future wishes to letter from it by touch, and when Among the other processes of write a letter to his wife he will mere-Hauy traced other letters on paper chemical engraving that followed y dictate it to the dictaphone and with the handle of his pen the boy Pon's discovery, only photogravure, it will do the rest-provided it is read them also, and the result was or the etching of photographs, has tuned in with his recording instruraised printing. In 1834 Louis ranked in importance with the half- ment at home. But this will in time Braille simplified this method to such tone. In its crude state, this pro- be considered slow motion, when by an extent that a blind person may cess seems to have been originated pocket radio persons can converse at now keep memoranda, write music by Roussilon, who kept it a secret any, distance, as well as transmit or carry on correspondence. Among until later improved and popularized photographic images or moving picrecent improvements in printing for by Goupil, Sr. Joseph Swan, and oth- tures. It is conceivable that even

the invention of Frank H. Hall. na, so greatly improved photo-sidered the paragon of permanence For nearly 350 years after Guten- gravure, that he may be credited may in time be dispensed with berg the progress of the printing with having invented an entirely new In time, typesetting will probably press was so imperceptible that it process now called retogravure. The po the way of Gutenberry hand might be likened to the progress of cotogravure process, which has thus press, but in the meanwhile we may a slow moving worm. But like the liss found its best enmession in the expect to see typesetting muchling worm it was, in the natural course of photographic section of Sunday manipulated from a distance on the

the blind is the Braille typewriter, ers. In 1895, Kal Ritetsch, of Vien- the post office department-now con-

its evolution, to emerge as the but, newspapers, reproduced the finest same principle by which treariter terfly-rapid of movement and re- graduations of tone value with a fi- are already operated. Looking on splendent in many colors. delity surpassing that even the cam- farther shead, it may not In 1790 William Nicholson re- eta itself. possible to commut thought ma leased the long swaited idea neces- On July 8, 1886, Otomar Morgon- directly to the printing press sary to give the printing press its wings. As an author, he had inted inder the slowners with which his pages were impressed, and had ang-gosted to printers the simple expedi-now increase as the Linearpe, a me- inviting media, i by and a method.

ent of rolling a cylinder over the changes, menter that not state and the words of an arrest type to produce quicker results, type, but sets with far more resulting in New York, Including Twenty-nine, years lines, in 1819, than had ever been whinyed by the of the humanity to the Productick Bionig successfully applie infort shilled however benel. ed Micholson's Lies and preduced the . In 1888 Samuel Mores and Alfred San Presidence or House tirst practical cylinder press, where Val discovered is provide the cost of the second by impressions were made upon which has since example the create the loss of the second between the flat bed set marval of type republic direct. In the second between the flat bed set marval of type republic direct.

r. The London Times installed the American wisard reason

