## The Literary Digest

## for October 20, 1917

# HOW WELL OUR CHEMICAL INDUSTRY HAS BEEN MOBILIZED FOR WAR

At an annual meeting of the American Chemical Society last month in Boston one of the sessions was largely devoted to discussion of war-topics by men at the forefront in helping our Government solve its war-time scientific problems. What had been done in this direction in a few months "proved altogether astonishing," secording to a correspondent of The lournal of Commerce. An eminent French themist, a guest of the Society, said that American scientists had "accomplished in three months what the European scientists required years to perform." One of the iddresses showed reasons for such a statement. It was made by Dr. William H. Nichols. "The chemical industry of the United States is mobilized," said he. "We are in fine shape to take care of any problems that arise regarding war-needs and the supply of the nation. We have been getting ready for this war and its demands for several years and feel conident that we can do much toward winning it with all our science and ability to use." Dr. Nichols followed with statements of the constructive good which had already been accomplished by the chemical engineers and industrial chemists who had been developing new products and substitutes for the many acids, chemicals, and

las given its attention, and already many evidences of practical results are seen, for there is every belief in our minds that the output of potash from various forms of recovery will mean that not only can we supply the needs of the country next year, but that we can hold the manufacture here after the war is ended. The greatest known deposit of potash in the world is awaiting development, and the chemical committee wants it made available for war-supplies at once. It contains over 23,000 acres of the richest known deposit, estimated to be worth more than one billion dollars. Its immediate use depends on Congress.

"Other sources of potash are its derivation or recovery from various by-

dyestuffs which formerly came in great bulk from Germany. Following are parts

"Potash is one of the most important abjects to which the chemical committee

of his address:

products, among them being the dust from cement mills, where many thousand tons are reputed to be lost at the present time. Potash, as well as being used in the making of war-supplies, is, of course, highly important in the preparation of fertilizers, and the farmers of the country need all that they can get. "Toluol is one of the ingredients used in the making of gas, and is also one

in the making of gas, and is also one of the most valuable ingredients used in the manufacture of trinitrotoluol, the basis of the most of the shells stored at the naval bases. The public service commissioners of various States require a certain quality of illuminating gas, and OldMagazineArticles.com

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even their tests have been changed in

order to allow for the manufacture of gas to go on with lesser quantities of toluol. The consumers will have to be satisfied with a slightly poorer quality of gas, until

substitutes are found for that ingredient. "So many are the products that are used in making materials and fertilizers

which have become scarce in the open market, that our chemical engineers have been working night and day to discover processes whereby the materials themselves or substitutes for them may be supplied quickly. "While this war is one of chemistry more

than of any other science, it is none the less true that everybody has got to take active part in order to bring it to a successful conclusion. From my observations in Washington I do not believe the people realize that we are engaged in an exceedingly difficult adventure. Not until a full appreciation of this fact is experienced will this country be able to put forward its best endeavors—and the best will be found not to be too good.

to carry this war forward inuch longer than otherwise would have been the case. The unpreparedness of its antagonists has done the rest. "While I have every respect for the Ger-

"The fixation of atmospheric nitrogen has made it possible for the German nation

man chemists I have a higher respect for the American chemists, and I have no doubt whatever but that they will be found equal to the task of conducting this war of chemistry in a manner thoroughly creditable to themselves and the nation. A writer in the New York Times re-

calls that before the war "more than ninetenths of the dyestuffs consumed in this country came from Germany, whose manufacturers controlled the world's supply of artificial dyes and the intermediate raw materials used in making them." In this country were only five producing com-panies, and their output was very small.

The dye industry did not attract American capital because "little or no profit could be gained in competition with the low-priced imported colors." When the war began, however, it cut off the supply from Germany, and so there followed a shortage that

seriously affected industries in this country

Since American chemists, capital, and

employing more than 2,000,000 men.

manufacturers came to the rescue, and a great dyestuffs industry was created, until the number of companies has risen from five to more than 100, we are making "what is needed, and more, so far as nearly all the

many varieties and shades are concerned." Our exports of dyestuffs in the year immediately preceding the war were \$356,000. Last year they were \$11,700,000. We are, in fact, making as much as we consumed in peace years, and are receiving for exports

more than we were then paying for im-

industry requires more than 900 distinct

This

ports from Germany or elsewhere.

chemical products, taken from about 300 OldMagazineArticles.com

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intermediates, and obtained from ten crude

months since the beginning of 1915, when the influence of the war began to exert itself in the development of the domestic indus-

try. The August figure compares with \$10,215,000 in July, \$1,775,000 in June, and \$16,375,000 last May. The compila-

tion includes only companies with an authorized capital stock of \$50,000, or greater. In the thirty-two months since

year and has been exceeded only in four

dyes aggregated \$13,101,000, which is the second largest total for any month of the

the manufacture of drugs, chemicals, and

given in The Journal of Commerce, that the authorized capital stock of companies formed in this country during August for

ing ourselves independent in this field." Of interest in connection with Dr. Nichols's statements is the news, also

materials supplied by the distillation of coal-tar. But "we have succeeded in mak-

January 1, 1915, the total indicated investment in new drug, chemical, and dye companies was \$230,670,000. Of this amount \$65,861,000 was contributed dur-

ing the first eight months of 1917, which was slightly more than the total authorized capital involved in the formation of similar concerns during 1915, but well below the figure for 1916. It compares with \$60,-

523,000 during the first eight months of last year. Other items in the Journal's statement are these: "The average monthly indicated investment in drug, chemical, and dye companies during the eight months ended August was \$8,232,600; during 1916,

\$8,270,300, and during 1915, \$5,463,700. The development over the period covered by the compilation has been as follows: \$65,565,09 Year 1915..... 99,244,008 65,861,008 Year 1916. Eight months, 1917.

"The incorporation of companies for the manufacture or distribution of chemicals, drugs, dyes, etc., compiled according to

months, appears as follows: 1915 1915 July..... \$4,950,000 January . . . . . . . . \$1,630,000 3,200,090 August..... 750,000

February ..... September... March..... 1,925,000 800,000 25,525,000 1,400,000 October . . . . April..... 1,650,000 5,100,000 November... Мау..... Docember . . . 10,125,000 June.... 8,450,000 \$65,566,000

1915 1918 July . . . . . . . . . January \$9,525,000 February 37,915,000 \$330,000. 1,375,000 August..... 5,500,000 25,905,000 Scotember ... 1,450,000 March..... 2,575,000 October.... April..... November... May..... 6,440,000 6,800,000

December ...

976,000

Total ..... \$99,244,000

(Continued)

553,000

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1917	
Jamary	. \$3,350,0
February	. <b>3,900,00</b>
March	11,850,00
April	5,095,09
May	16,375,00
June	1,775,000 10,215,000
July	. ш.216.00

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