

Hidden Chemical Power to Solve Man's Problems, says Dr. Slosson, Noted Writer

New York, April 10.—"Sources of an energy undreamed of by man are being uncovered by chemistry," says Dr. Edwin E. Slosson in the April Mentor Magazine.

Radium, explains the distinguished author of "Creative Chemistry," is always a little warmer than its surroundings, no matter how warm these may be. An ounce of radium salt will give off enough heat in an hour to melt an ounce of ice, and in the next hour will raise this water to the boiling point; and so on again and again. From the heavy white salt there is continually rising a faint fire mist. This gas is known as niton, "the shining one." A pound of niton would give off energy at the rate of 23,000 horsepower; fine stuff to run a steamer, one would think, but it does not last. By the sixth day the power would have fallen off by half. Besides, no one would dare serve as engineer, for the radiation will rot away flesh. Not only does radium break down molecules of organic matter, but it is now believed it attacks the atom itself, changing one element into another. This indicates that other elements, in proportion to their weight, have concealed within them similar sources of energy.

"Incalculable wealth may lurk in the meanest substance," Dr. Slosson says. "For wealth is measured by the available energy of the world, and if a few ounces of anything would drive an engine or manufacture nitrogenous fertilizer from the air, man's troubles would be over."

Dr. Slosson takes the joy out of the picture, however, by adding that, although H. G. Wells and Rudyard Kipling have given us glimpses of what it would mean to man to command this power, they are lazy in their descriptions of the machinery for utilizing it, and thus far no inventor has come forward to show us how.

Draining the Land.

"Nitrogen, perverted by militarism to destruction, was meant by the chemist for creation. A ton of wheat takes away from the soil about 47 pounds of nitrogen, 18 pounds of phosphoric acid, and 12 pounds of potassium. Therefore, if the farmer does not restore this much to the soil every year, he is drawing on his capital. Until the war came, the European farmer, especially in Germany, was constantly feeding his capital through importations of nitrate fertilizer from the rich lands of western South America. The German yield in bushels of wheat per acre was 19 in 1889-90. In 1913 it was 35. In the United States the figures were 12 and 15. Germany imported 55,000 tons of Chilean saltpeter (sodium nitrate) in 1890 as against 113 bushels for the United States. But the United States uses only 28 pounds of fertilizer per acre, while Europe uses 200. For 300 years American farmers have been living on the unearned increment of the unexploited land. This is more mining than agriculture. Now we must consider conserving our capital."

"Uncle Sam is exceptionally lucky in his inherited wealth, but he has not been idle in improving his property. From corn he has learned how to prepare a hundred useful products, from salad oil out on tables to the 'rubber' tips on our pencils. He has added \$10 to the value

of every bale of cotton by extracting oil from the seed that used to be thrown away. He wastes nothing of the hog but the squeal, and he is now saving the smoke from his coals ovens. Out of this smoke, not the squeal, he gets ammonia and coal tar, and from tar in turn are produced the thousands of dyes and drugs and other chemicals that have become essentials of our civilization. Before the war, Germany had gained control of the coal-tar products, and all the other countries paid her tribute. But they have been forced into dependence during the war, and the Germany monopoly has been shaken. Before 1914 the United States used some \$15,000,000 worth of coal-tar colors, and over \$10,000,000 of these were imported. Now the tide has turned, and in 1920 the United States made enough dyes for her own use and exported \$35,000,000."

Gas That Is Perfume.

This same coal tar, which Dr. Slosson says, was thrown away for years by American gas makers, is a source from which the chemist can extract almost anything. Its by-products are so related that the same factories that were making munitions are now turning out products that once were imported. In some cases the same compound plays many parts. Picric acid is both dye and explosive. A soldier fighting under a yellow flag dyed with picric acid might have been wounded by a shell filled with picric acid and taken to a hospital where his wound is disinfected with picric acid. Poisonous war chemicals are being turned into dyes, drugs, and perfumes. Aspirin, acetanilide, celluloid, photographic chemicals, carbolic acid, bakelite, dyes, and flavoring essences are but a few of the peace-time uses of the products of the peace-time coal-tar products. Deadly phosgene gas, for instance, is being turned into violet perfume!

The chemist has added \$150,000,000 to the value of the United States cotton crop by using cotton seed that was formerly destroyed. The flat goes to make smokeless powder and celluloid, the hulls become paper stock, cattle feed, or fertilizer; and the kernel a table oil, 700,000 barrels of which are now sent to the Mediterranean, the home of the olive. The chemist is taking new and specially useful steps by mixing iron with vanadium, tungsten, chromium, titanium, nickel, cobalt, phosphorus, molybdenum, manganese, silicon, and sulphur. Platinum, one of the most valuable of metals, is found in nature only in Russia. When the secret of its supply, the chemist was able to furnish some industries and professions with palladium, rhodium, and iridium, major members of the platinum group, but satisfactory substitutes.

Since it is so difficult to replace, in regard to many vital things, that equality which is a right of man, the chemist is a most effective agent for democracy. Dr. Slosson believes, however, that the monopoly of the privileged classes, become, through applied science, the common property of the masses, he says.

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WOODROW WILSON BACK IN POLITICS

New York, April 10.—Woodrow Wilson Saturday night reentered politics when he sent the following message to the Jeffersonian banquet here:

"Say to the democrats of New York that I am ready to support anyone who stands for the salvation of America and the salvation of America is justice to all classes."

Breaking his long silence on political subjects, the former president sent this brief but significant message from his home in Washington to leading democrats gathered at the Commodore hotel in the annual Jeffersonian banquet.

The message from Wilson, read by Mrs. Montgomery Hare, head of the women's auxiliary of the club, provoked long and demonstrative applause. For several minutes the guests stood on their chairs and waved their napkins in an old-fashioned chautauqua salute, meanwhile cheering lustily.

1600 Attend Banquet. The banquet, given by the Democratic club of New York, was attended by 1600, including the prominent democrats as George White, Hon. Charles Hamilton, Hamilton Holt, James M. Cox, Joseph Tumulty, John W. Davis, Charles P. Murphy and Wilton Lackey.

Prominent democrats in their speeches announced the League of Nations as the keynote of the coming congressional campaign.

"The democratic party must bring forward in the coming election only those standard bearers who are pledged to the program of the League of Nations," Hamilton Holt, former publisher of the New York Evening Post, said. "The party must bring forward in the coming election only those standard bearers who are pledged to the program of the League of Nations."

"The League of Nations," Holt declared, "was the first attempt in the annals of history to translate the dreams of the poets, the prophets and the philosophers for a federal world into the realm of practical statesmanship."

Outlining the steps leading up to the defeat of the league by the "opposition party," Holt declared that it was "thrown overboard" by big and narrow, although 31 prominent republicans—including two most distinguished men of Mr. Harding's cabinet—Hughes and Hoover—actually gave their personal guarantee. Mr. Harding would never the league with reservations.

Ignored Campaign Pledge. "Not only has Mr. Harding publicly repudiated the existing league, but as far as the public knows he has not taken the first step to redeem his campaign promises and create the Harding association that was to supplant the Wilson league."

"If the republican party could win the last election on a campaign of representation, the democratic party ought to win the next election on a campaign of enlightenment. * * * The responsibility of the democratic party to the American people and to the world is clear."

"Let the democratic party, therefore, keep up the fight for the league. Let it bring forward in the coming election only those standard bearers who are pledged to this program."

To Make You Smile

Point Well Taken. Angry Subway User (climbing stairs): "Hey, be careful! You stuck the point of your umbrella in my eye."

Cheerful Bimbo: "Not mine, old kid. This is a borrowed umbrella."

Strange Coincidence. Lawyer: "So you want me to defend you, Rastus? Got any money?" Rastus: "No sub, but ah got me a mule and a few chickens and a hawk."

Subtraction Is Distraction. Teacher: "In subtracting, you must take things from things of the same denomination. You can't take three apples from four peaches, or two marbles from nine buttons, or anything like that."

Silas: "Teacher, couldn't you take three quarts of milk from four cows?"

Followed by Silence. Exasperated Father: "What a boy you are for asking questions. I'd like to know what would have happened if I'd asked as many questions when I was your age."

Young Hopeful: "Maybe you'd have been able to answer some of mine."

Bargain Hunting. Mrs. Newcomb: "I want you to teach my son a foreign language." Language Teacher: "Would you like Polish, Yugoslavonian, Armenian, Czechoslovakian or, perhaps, even Arabic?"

Mrs. Newcomb: "Which is the most foreign?"

Fowl Tactics. Suburbanite: "Thanks for that crate of chickens you sent out, old man, but you ought to have told the dealer. The crate was so frail that they all got out when I was getting 'em at the station and I had to scatter 'em all over the neighborhood for 'em. Even then, I only caught ten."

City Friends: "Sah! I only sent ten."

Issue with Henry Tromp, 33 West 9th.

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Chic New Spring Millinery Showing a Diversity of Models

It is enough, of course, to know that a hat is stylish and becoming, but when it is known that it is an exact copy of a late French creation, how much more interesting it is! The several models here illustrated give but a glimpse of the wide selection that here awaits the matron and miss. The prices are amazingly low, authenticity of style considered. The display includes every conceivable fashion, from the perky tailored chapane of unrelenting outline to the transparent lace hat with a lazy droop—from the ever-straight brimmed sailor to the brilliantly flowered and colored hats that suggest Springtime loveliness.

\$2.98 \$3.98 \$4.98 and up to \$6.90



A—Medium poke, rolled back, of Sand Tweed cloth; Jade Crepe de Chine facing; trimmed in wool embroidery and straw pom pom.

B—Medium Poke, of Jade Viscan-kalt Straw, sectional crown; Jade Crepe de Chine facing and flange; trimmed with orange ribbon.

C—Dress Hat of Bonfire Red hair braid; straw pom pom. Off-of-the-face effect.

D—Large Dress Hat of Copen hair braid; wreath in front of Naere flowers.

E—Large Mushroom Hat of Periwinkle Tagal straw; rose Crepe de Chine side crown and facing; flowers applied on side of crown.

F—Sport Hat in chic turn-up-in front effect—of Periwinkle Crepe de Chine with facing of white Tagal straw and trimmed in wool and bead.

THE LARGEST CHAIN DEPARTMENT STORE ORGANIZATION IN THE WORLD

As the World Wags

By FRANK FAY EDDY

THE ORIENT is more and more challenging the interest of the younger generation. That the influences of the East and West shall meet and mingle here in the Pacific coast states is too obvious to require prophesy. We have in the Japanese immigration questions one aspect of the problems which arise when Orient and the Occident meet. It is evident that the white man and the yellow cannot yet associate themselves in intimate relations in a common civilization. Granting this, it still remains true that much benefit both material and spiritual may flow from the reaction of the Orient on western America and conversely.

BUT FIRST each party must achieve sympathetic understanding of the other. Hitherto Americans have looked toward Asia as a land filled with dark-skinned peoples in bondage to exotic and archaic social customs, practicing curious heathenish religions and in general as being inhabited by peoples distinctly inferior among such drowsy eastern nations to be as that of a Yankee at King Arthur's court.

AT LENGTH it begins to sink into our consciousness that China and Japan have a culture intertwined with civilization which antedates the very discovery of America by many centuries. We seem crude and condescending to the learned and artistic civilities of these ancient lands. Our missionaries appear at a disadvantage frequently because the widespread philosophic Oriental of the higher ranks of life. It begins to dawn upon us that, in part at least, the quality of the Orientals to our commercial civilization is not because they do like the kind of a thing we bring. Our ideas and customs and machines and inventions seem cheap and new and they have a naive suspicion that our inventions have run away with us.

PRACTICAL CONSIDERATIONS however forces the East to adopt more and more our railways, our tools, our machine-made goods. Meanwhile, we are beginning to discover that while we excel in science that artistically we are inferior to the peoples of the East. We are broadly speaking in our philosophy illogical, opportunistic while the philosophy of the East is long-visioned and patient. All the finest mystical ideas which struggle amid arid creeds in our very Christianity came originally from Oriental peoples and this strain of exaltation and mysticism runs strongest still in the minds of the Orientals. In fact they can give to us many things to enrich our cruder and newer civilization.

THE COMMERCE between the Orient and the Occident is something more than an exchange of goods. That may be accidental and temporary. But the exchange

of the things of the mind and the spirit have too their commerce in which he that gives is more blessed than he that receives.

PRINCETON STARTS FOOTBALL CLEANUP

By HENRY L. FARRELL (United Press Staff Correspondent)

New York, April 10.—Big brooms are working on spring house cleaning around the "Big League."

Princeton started it and Yale and Harvard will have to follow it for the simple reason that Princeton puts it up to them to do the same thing.

Eighteen athletes at Princeton, by a ruling of the athletic committee, have been declared ineligible to compete in varsity sports.

Tom McNamara, captain of the basketball team, is the only one whose name has been made public.

The committee wished to make it known that today that it had not said to Yale and Harvard—"We have done our part, now it's up to you to clean up."

The committee also insisted that the stigma of professionalism does not fall upon any of the ineligible men and that their honor is in no way besmirched.

While it was not admitted officially, it is generally regarded that the eighteen are the first victims of the "loan system" which works along this line:

Mr. So and So, a wealthy alumnus, sees a great high school or prep school star at such and such a place. He goes to him with a pat on the back and asks him where he is going to matriculate.

The boy says he has to go to college. He has no money to go to college.

The kind benefactor then tells him to get out at such and such a place. He examines at his alma mater and the examination will be paid and that he will be allowed so much spending money. All the money that is put out on him can be paid back when he makes good in the big outside world.

There are few records of these loans being called for, paid.

SPORT NOTES

Pittsburgh.—Wild rumors here say that the Pittsburgh Pirates will eat red monkey meat brought from South America by George L. Kerr, wealthy fan, to help them win the pennant.

New York.—Jim Barnes, national open champion, back at Pelham after a 10,000 mile tour, says he is not sure he will go to England this year and that other American professionals may not play in Britain.

New York.—Carl Mays, in great form, allowed Brooklyn only one hit in seven innings and the Yanks won, 1 to 0. Babe Ruth made two circus catches.

New York.—Pouncing on Shen in the seventh, the White Sox scored three runs and beat the Giants, 3 to 2 in their last exhibition game.

Columbus, Ohio.—The Cleveland Indians got to Lower Merion early and then avenged their Saturday's beating by trouncing the Columbus senators ten to four.

Detroit.—Panama Joe Gans will attempt to soothe his pride here tonight when he meets the Jamaica Kid. The Kid trounced Gans, holder of the Tex Rickard middleweight championship belt at Norfolk, two years ago only the bell saving him.

Chicago.—George Gray, London, was here today to challenge Jack Schaefer for the 15-2. Gray is willing to play for a purse of any amount up to \$20,000. Gray has made many billiard records in Australia.

Chicago.—Roland Clont, Akron, retained his title as the world's champion roller skater here under the colors of the Checker A. A. Clont won the 10 mile race last night and closed the meet with 60 points.

Council Bluffs.—The 10 round bout between Cowboy Padgett, Denver, and Morrie Schaefer, Omaha, scheduled for tonight has been called off. Schaefer injured his hands during training. Efforts are being made to match Padgett with Champion Johnny Britton here on the 25th of April.

TOO LATE TO CLASSIFY

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DOCTORS CLAIMED RECOVERY WAS ALMOST A MIRACLE!

Woman Facing Certain Death from Nervous Disorder Discovers Remedy in Time

Nervous disorders are on the increase. Men and women compelled to go out into the world to battle for a living quite often neglect their health to such an extent that a breakdown is the inevitable result.

Such neglect is criminal. In many instances it leads to fatal consequences. When you have moody spells, feel depressed, begin to have distaste for business or social duties, when you cannot sleep at night—these are sure signs of nervous ailments and should be checked.

Read below of the experience of one woman who, according to her own testimony, was

facing death, but who fortunately discovered the right remedy in time, and which brought her back to health and normal strength:

Miss Rena B. Crossland, Kempt, Queen's Co., N. S., writes: "I feel it a duty as well as a privilege, to tell of the wonderful benefits I derived from the use of Dr. A. W. Chase's Tonic Pills. In March, 1917, I had anaemia of the brain and the mental and physical suffering I endured is indescribable. I had treatment from three doctors, and for twelve days was unconscious while for three months I was fed and cared for like an infant. My mother was so anxious for me to use Dr. A. W.

Chase's Tonic Pills that she crushed them and baked them in my food. After using two boxes I could feed myself; and after using them for two months, my health improved so rapidly that doctors and friends said my recovery was a miracle. I cannot recommend Dr. A. W. Chase's Tonic Pills too highly, even to those who seem to be facing death."

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