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To residence unknown.



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Sworn to and subscribed before me this eleventh day of October, 1915.

(Signed) J. C. PLATAS,

Notary Public in and for Dallas County, Texas.

My commission expires June 1, 1917.

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## KAMBARA EARTH AND ITS USE AS A REAGENT FOR COD-LIVER OIL.

Kambara earth is called "acid earth" or "acid clay" in Japan, and is widely used in

oil factories as the bleaching and refining agent of mineral and fatty oils. It is now stated that it has "a remarkable bleaching action on fatty oils." The earth has recently been studied (see *P. J.*, February 16, 1913, 213), but no reports on the bleaching action of the earth on fatty oils appear hitherto to have been published. The earth occurs in three color varieties—bluish-green, brownish orange, and light yellow. As a result of experiments with these varieties in the bleaching of fatty oils, it is shown that the color of the spent residual earth (i. e., the earth which has been used to bleach the oils) is related to the degree of oil-bleaching of the originally used earth, and the more deeply colored earth serves as a bleaching agent more effectively than the lighter-colored earth; the brownish bleached better than the greenish, so that one can easily foretell the bleaching properties of an unknown earth, and also distinguish the end point of the bleaching action. The bleaching action of the earth increases with the rise of temperature to a maximum at about 140° C., and then gradually decreases. The optimum temperature varies according to the kind of oils and fats; drying oils, fish oils, etc., were bleached generally at lower temperatures than soya bean oil. Well-bleached oils are nearly colorless; in other respects, the characters are not essentially different from those of the original oils. On account of their harmless effect on nickel catalyser they can be recommended for use as the raw materials in oil-hardening plants. Among the observations made by the author is the following:—"A color reaction on cod-liver oil.—A few grammes of the earth were mixed with cod-liver oil in a test tube and then shaken; the earth became a beautiful bluish-green color. The coloration seems due to the presence of coloring principles in the oil, and is a very characteristic one. According to my experiments, most other oils have not such a coloration, so that this coloration would seem applicable to the detection of cod-liver oil."—Seichi Ueno (*Journ. Ind. and Eng. Chem.*, July, 1915, 596.)

## AIM OF SCHOOLING.

"The aim of all schooling should be practical; that is to say, intended for some use in the scheme of modern society. Service is primarily the distinguishing basis of education—service to our fellow-man, service to the state and service so that justice may come to be a reality in man's relation to man.

"The college is accomplishing a wonderful work in building the foundations for business life, in providing the trained hand and mind to assist in constructing an honest pattern of commerce out of the warp and woof of new material; in providing the professions with new helpers and in teaching the gospel that the idler has no place in the busy haunts of men. I am a conservative and would not have the feverish industrialism of this day uproot the finer branches or deny to the classics their place in the curriculum of the college. The beauty of culture is necessary to our ideals.

"By scholar I do not mean the pale ascetic—a glow-worm who illumines with faint light some dark passage through which men seldom wind their way, or one who explores some dark attic of out-of-way knowledge and stirs the drowsy bats to startled flight; but the boy or girl, the man or woman, who is a blend of the ideal and practical, who has the saving grace of common sense, clarified by knowledge, strengthened and vitalized by learning and education. The true scholar is a doer of things, one who lives for achievement. Today it is the scholar who is seeking by experiment and patient vigil to combat the dread diseases that scourge the human family, who gives up his life, a soldier of civilization without seeking the blood of his fellow-man. It was a scholar who mapped and charted the currents about the pole; a scholar who devised the means by which our messages could be carried through the air on waves of ether from far distant points on land and sea, and it is the scholar who is teaching our unwilling farmers how to utilize every chemical element of earth and sky to grow the breadstuffs in our state that will feed the peoples of the world. When this comes about then will cotton cease to be the undisputed monarch of our fields and share its scepter and dominion with the yellow corn and the ripening grain.

"Let it be taught in every school that no government can be better or higher than the average character of its people. Let it be taught above all things that class hatred is an abomination; that there is no class in our government, but an aristocracy of intellect, a titled nobility of mind and heart; and let it be impressed that all respectable elements of society are co-ordinated in one beneficent system—the public welfare of all. Strangle the demagogue who preaches resort to the bullet or the incendiary's torch, who ridicules education and compliments ignorance, who inflames without enlightening. In the effort to correct evils—and materialism is the predominant evil of this generation—let it be known that honest wealth itself is not a crime. When wealth endows our schools and maintains our hospitals and builds our churches, when it spreads light in the dark corners of the earth, it is a benediction and not a curse."