Reverse environmental conditions renders a minimum of homologous protein with the remaining protein unequally divided between the hybrid and heterologous variety. As has been ascertained, a large part of the two latter kinds is absorbed into the general circulation; to be dealt with, in the effort to form the homologous variety, or failing in the vicarious function, this foreign protein is stored away somewhere in the tissues of the infant, to await accident or medicinal interference to rid the body of these elements of potential danger. These when added to by the waste proteid matter, of incomplete catabolic changes, form the groundwork of a serious systemic leucomain poisoning—so-called autointoxication.

Ptomains, leucomains, ferments—vegetable and animal—and vegetable alkaloids are all of proteid origin, are allied and closely related in poisonous qualities and therapeutic utility; in natural economy they are always reverted to simpler units of their composition, to be reconstructed into the complexities of nature's various necessities, a unit of one being capable of becoming a component part of a reconstruction of another, yet incomplete, product; of combining with several primary units of two or possibly more simpler substances to form a new entity. Herein lies the potentiality for good or for evil in the living economy—conditions of environment always determin-

ing the character of reconstructed proctin.

The role of the alkaloid—vegetable or animal—in the treatment of disease is its physical, chemic and biologic function of rounding out retained, incomplete proteid matter in the tissues—the minor part in making homologous protein, the major part in rounding out heterologous protein and incomplete catabolic proteid, to become normal excretory substances; diuretics avail not if products naturally excreted by the kidney are incomplete; hybrid or heterologous protein is not transmuted into the host's tissues; properly formed pabulum must pre-exist in the blood to regenerate brain tissue. The demand for the bile in the intestine is the best stimulus to its flow and reproduction.

Manitowoc, Wis., June 7, 1907.