

cated situation, to devise measures and supply means to master, control, guide and shape industrial and educational affairs so that the country will hold its front rank among the nations of the world.

Successful competition by the United States with other nations seeking markets for their products will compel the adoption of more scientific methods than have in the past obtained, and to this end the Department of Commerce will become more important and extensive as a source of industrial data for business and manufacturing interests.

Scientific management has been developed as a result of the war and closer contact between labor and capital is now more highly valued. The wonderful achievements of this country would have been utterly impossible without the really big men with these views, who developed the conservation and production plans which with the other equally important promotions enabled the United States to change the course of events in Europe. In the reconstruction following peace it is important that Capital have the viewpoint of Labor and reversely and, above all, that the principle of brotherhood, "Do as you would be done by," be accepted and more generally applied among nations and individuals.

E. G. E.

CALOMEL ASSAY (U. S. P.) IMPROVED.

BY A. B. LYONS.

The U. S. P. assay for calomel is neat and often expeditious. Sometimes, however, the calomel is exceedingly slow to dissolve in the prescribed volumetric solution. Increasing the quantity of the iodine solution helps materially. As much as 75 mls of the solution may be advantageously used in place of the 50 mls prescribed.

The difficulty is, however, wholly overcome by the simple expedient of doubling the strength of the reagent. It is as well to prepare a special volumetric solution by dissolving in 50 mls of water 13 grammes of iodine and 20 grammes of potassium iodide, adding a solution of 80 grammes of potassium iodide in 150 mls of water and making up with distilled water to 500 mls, or a little less. Standardize to a fifth-normal strength on an accurately standardized tenth-normal sodium thiosulphate solution.

In the assay use 0.5 Gm. of the dried calomel, 5 mls of water and 20 mls of the reagent, with no additional potassium iodide. Solution of the calomel will be effected in a few minutes. Titrate the residual iodine with tenth-normal thio-sulphate solution, remembering to reckon the quantity of iodine solution as equivalent to 40 mls of a tenth-normal solution.