Before World War I the Dutch chemical industry was dominated by small and middle-sized companies. The three largest German dye companies employed together about 25,000 workers, more than the entire Dutch chemical industry, and each of them employed about 300 chemists, again more than the entire chemical industry in the Netherlands. This would change dramatically during the war. The open economy of the Netherlands was hit immediately when the war broke out. On 19 August 1914 the Dutch Chemical and Pharmaceutical Societies joined forces in warning the Ministry that German export prohibitions threatened the supply of pharmaceuticals in the country. Shortly thereafter, in response to the British sea blockade, leading businessmen created in November 1914 the Nederlandsche Overzee Trustmaatschappij (N.O.T.), that channeled and administrated all overseas trade, in order to guarantee to Great Britain that no British-made goods were re-exported to Germany. In practice though, smuggling rose to unprecedented levels during the war.

In my presentation I will discuss how the Dutch chemical industry responded to that situation; in three major ways. In the first place, R&D efforts intensified, in order to find substitutes for products imported from Germany before the war. In the second place, Dutch government organized a consortium of chemical companies with the aim of raising munitions supply, and, in particular, the production of high explosives – which had never been produced in the Netherlands before. Finally, partly connected to the two other developments, I will focus on the initiatives of Professor Gerrit Hondius Boldingh (1865-1936) – professor of applied chemistry at Amsterdam University and director of a small company that produced glycerine – to create a large chemical holding company that would include eight of the major organic and inorganic chemical companies of the country, with the close support from Royal Dutch/Shell and the largest Dutch bank.

Although one of the major initiatives of that holding company, the establishment of a factory for making azo dyes, was killed off after the war by German competition, the long term effects of this unique collaboration between these companies should not be underestimated. The major Dutch bank widened its focus from the colonies to the motherland, thereby creating the conditions for the Dutch chemical industry to expand; Royal Dutch/Shell maintained close relations with all the companies, which helped the company to later diversify into petrochemicals; and the smaller companies had all gained valuable experience in economies of scale and scope that would guide them in their further expansions.
Select bibliography

Hertog, Johan den, and Samuël Kruizinga (Eds.), *Caught in the Middle: neutrals, neutrality, and the First World War* (Amsterdam: Aksant 2011).


