

〈シンポジウム II〉

『環境を考えた化粧品テクノロジー』

環境と共生する化学：グリーンケミストリー

御園生 誠

Green Chemistry: Chemical Technology Symbiotic with the Environment

Makoto MISONO

Abstract

First, it is pointed out, considering the 3.11 disaster and the sustainability of the society, that the fundamental ethics of science and technology is very important. To provide the society with scientific judgment or scientific criteria and information necessary for the judgment in societal issues is one of the basic missions of scientists and engineers. Then, the past and future of Green (Sustainable) Chemistry (GC/GSC) that is defined as chemistry and chemical technology to realize sustainable society is discussed, using, for example, environmental Kuznets curve. In general, GC/GSC in the past 10-15 year was successful, but for the future the broadening of its concept like positive GC/GSC and placing more stress on green products may be necessary. The importance of science communication is also to be emphasized for the citizens to understand properly the sustainability of energies and the risk of radioactivity on human health.

Key words: Green Chemistry, positive GC / GSC, fundamental ethics, science communication, environmental Kuznets curve.