

Clean Air with Photocatalysis, Carlsberg Academy

April 24, 2018



Professor Akira Fujishima

Tokyo University of Science, President

Professor Akira Fujishima is known for discovering the photocatalytic and superhydrophilic properties of titanium dioxide (TiO₂) resulting in an array of applications such as self-cleaning and air purifying technologies that have changed the world. Prof. Fujishima's name has been put forward as a potential Nobel Prize winner and his work has been recognized with many prestigious awards and honors. On November 3, 2017, Prof. Fujishima received the Order of Culture from the Japanese Emperor.

In 1967, while working on his Ph.D. under the supervision of professor Kenichi Honda at Tokyo University, Prof. Fujishima discovered the phenomenon of photocatalytic water decomposition when he exposed a titanium dioxide electrode to UV-light, later called the *Honda-Fujishima effect*. The discovery of self-cleaning properties of titanium dioxide by the group under his supervision initiated a revolution in the ceramic, glass, and other industries. On completing his Ph.D. in 1971 he became assistant professor at Kanagawa University but returned to the University of Tokyo in 1975 as assistant professor in the Department of Applied Chemistry. He was promoted to associate professor in 1978 and professor in 1986. He became professor emeritus in 2003 and *special university professor emeritus* in 2005. In 2010 Prof. Fujishima was appointed the ninth President of Tokyo University of Science. A position Prof. Fujishima holds today. Besides being the father of Photocatalysis Prof. Fujishima is also inventor on more than 275 patents and author of more than 750 original papers.

Organizers

CARLSBERGFONDET

PHOTOCAT

