

CURRICULUM VITAE

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Career history

Akira Yabe has been a Fellow and former Director General of Technology Strategy Center of New Energy and Industrial Technology Development Organization (NEDO), National Research and Development Agency of Japan.

He has published the “Comprehensive R&D Principle for Sustainable Society [The NEDO’s Principle] ” with the member of Technology Strategy Center of NEDO in 2020 where the importance of “Circular Economy”, “Bio-economy” and “Sustainable Energy” would be stressed to realize the sustainable society.

He has been challenging to produce the technology strategy for various fields of energy engineering, such as the large scale energy system with much amount of variable renewable energy, the acceleration of hydrogen society and the development of the battery. He has also been challenging the support of managing the Green Innovation Funds of Japan for realizing the carbon neutrality of the world by 2050.

He is also a Researcher Emeritus of National Institute of Advanced Industrial Science and Technology (AIST), and a Member of Science Council of Japan. He serves for ISO as the Convenor of ISO/TC281 Fine Bubble Technology /WG3.

Before entering NEDO at 2015, he had been a Vice-President of AIST for 7 years as a Director General for Environment and Energy Research Fields.

He completed PhD in Mechanical Science and Engineering, Tokyo Institute of Technology at 1979 and joined Mechanical Engineering Laboratory (MEL) of Ministry of International Trade and Industry (MITI) of Japan. He became a Director for Advanced Manufacturing Research Center on Micro and Nano Scale Science and Engineering, AIST on 2001.

He had been concurrently a Professor of Institute of Engineering Mechanics and Systems, University of Tsukuba (1992-2010), Adjunctive Professor of Science University of Tokyo (1995-2009), Russell Severance Springer Professor, Department of Mechanical Engineering, University of California, Berkeley (2001), Professor (Cooperative Chair) of Tokyo Institute of Technology (2005-2013). He also served as the President of the Japan Society of Mechanical Engineers (JSME) (2013-2014).

Awards

Best Papers Award from JSME (1984, 2001), Best Technology Development Award from Heat Transfer Society of Japan (1990), Distinguished Research Award from Science and Technology Agency of Japan (1994), Best Papers Award from Japan Society of Applied Physics (2002), Best Papers Award from Japan Society of Energy and Resources (2007)

Areas of expertise:

Energy Engineering and Global Environment Protection, Renewable Energy Engineering, Energy System Engineering, Hydrogen, Energy Conservation, Heat Transfer, Heat Pump Technology, Mechanical Engineering, Ultrafine Bubble Technology