

Masayuki Horio



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Title: Prof. Em. (Ch. E.), Tokyo U. Agric. and Technol.,
Former Professor of Policy Sci. Ryukoku Univ.
Visiting Professor, Waseda University

BS: Nagoya Institute of Technology, Applied Chemistry

MS & Dr. Eng.: Nagoya University, School of Eng. Dept.
Iron and Steel Eng.

Postdoctoral Work: West Virginia Univ., Dept. Chem. Eng.

Professor Masayuki Horio has long been a leading researcher in both theoretical fundamentals and applications of Fluidization Engineering, which is one of the multidisciplinary sub areas of Chemical Engineering providing a key innovation principle, ‘fluidization’, in catalytic cracking, solid fuel combustion/gasification, catalytic process for chemical feed-stocks, gas phase polymerization, silicon production, waste incineration and/or drug design, having a strong relationship with fluid mechanics, particle/powder technology and reaction/reactor engineering.

He has quite wide R&D experiences with industries, municipalities and central governments on energy conversion technologies, renewable energies, waste managements, global warming mitigation technologies, organic/inorganic material productions, drug-designs and particle/fluid mechanical simulations. With such experiences and with his interests on science-technology-society studies from his early period, he has been, since year 2000, further extending his field into policy science relevant to science and technology policy as well as energy/environment policy and ‘social engineering’ defining the global warming mitigation issue as a task to reform modern civilization.

As a Chemical Engineering Professor of Tokyo University of Agriculture & Technology (TUA&T) he served as a leader of Center of Excellence Program (COE) project on energy/environment issues for five years. From April 2008 he is Prof., Emeritus, TUA&T. From FY 2008 to 13, he served as a director of JST-RISTEX (Res. Inst. Sci. & Tech. for Society)’s Environmental Program to tackle socio-technical issues in the

energy/environment area, particularly global warming issues. There he ran 16 projects all over Japan. At the same time he joined Waseda University as an Affiliate Professor and taught an open course 'how to reform the massive petroleum consuming society from the community level' for three years. From April 2010 he started teaching, as a Professor of Policy Science at Ryukoku University (Kyoto), regional energy/environment policy, appropriate technology strategy and science and technology policy etc. He was/has been a member in many government committees including International FBC Collaboration Committee of NEDO, Central Environment Council (MOE), Council for Science and Technology (MEXT), and/or Council for Green Decentralization Reform (MIC).