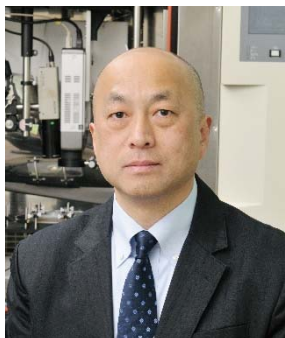


## Profile [Moderator]

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### Education:

**1976-1980** Dept of Organic & Polymeric Materials, Tokyo Inst of Tech, Japan (B. Eng.)

**1980-1985** Dept of Organic & Polymeric Materials, Tokyo Inst of Tech, Japan (M. Eng.)

**1981-1982** Dept of Physics, University of Manchester, UK (visiting research fellow)

**1988** Dr of Engineering, Dept of Organic & Polymeric Materials, Tokyo Inst of Tech, Japan

Masahiko Hara was born in Tokyo, Japan. He received his bachelor's degree in 1980, master's degree in 1983, and his Doctor of Engineering degree in 1988 from Tokyo Institute of Technology (Tokyo Tech), Japan, in the Department of Organic and Polymeric Materials. He was a visiting research fellow of the Department of Physics, University of Manchester, UK, from 1981 to 1982.

In April 1985, he became Research Scientist at RIKEN, Polymer Chemistry Lab. He worked for the establishment of Frontier Research System and Advanced Materials Lab in RIKEN since 1986 and has served as Deputy Head of Exotic Nano-Materials Lab (1991-1999), Head of Local Spatio-Temporal Functions Lab (1999-2007) and Emergent Functions (subsequently renamed Flucto-Order Functions) Lab (2007-2013), Director of RIKEN-HYU Collaboration Research Center in Seoul, Korea (2009-2013) and Director of the Corporate and International Relation Division (2011-2013), all at RIKEN. He has also served as Lecturer at Chiba University (1991-1997), and Visiting Professor at Tokyo Tech (1997-2003). In addition, he has worked on many international exchange programs and national research projects.

He is currently Professor in Department of Chemical Science and Engineering, School of Materials and Chemical Technology, and is affiliated faculty in the Chemical Evolution Lab Unit at the Earth-Life Science Institute (ELSI); the Project Leader of TKT CAMPUS Asia at Tokyo Tech; Adjunct Professor in the Chemistry Department of Hanyang University, Korea; and Senior Visiting Scientist, RIKEN.

His research interests are in the areas of Nanotechnology and Nanoscience, Scanning Probe Microscopy, Self-Assembled Monolayers, Bio-Interfaces, Spatio-Temporal Functions, Emergent Functions, Flucto-Order Functions, Bio-Computing, Biological Information Processing, Chemical Evolution, Origins of Life, and Natural Intelligence. He has published around 350 papers and introduced many new research concepts (such as Spatio-Temporal, Emergent, and Flucto-Order Functions, and Natural Intelligence) and new terminologies in Japanese.