

Hideyuki Kanematsu--deleted

Subjects: **Materials Science, Coatings & Films** | **Electrochemistry** | **Microbiology**

Contributor: Hideyuki Kanematsu

Dr. Hideyuki Kanematsu (ORCID ID: <https://orcid.org/0000-0002-9144-6539>) is a professor of materials science and engineering at the National Institute of Technology (KOSEN), Suzuka College in Japan. Hide's areas of interest include biofilm engineering, surface engineering, corrosion and STEM Education (Active learning by e-learning). He holds a B.Eng. (1981), a M.Eng(1983) and a Ph.D in Materials Science and Engineering (1989) all from Nagoya University. He is active members, board members, editorial members of ASM International, National Association for Surface Finishing, the USA (NASF), the Institute of Metal Finishing, UK(IMF) as well as the Minerals, Metals & Materials Society, USA(TMS), American Chemical Society (ACS), Electrochemical Society (ECS), the Japan Institute of Metals (JIM) and the Iron & Steel Institute of Japan (ISIJ) etc. After 30 something long research activities, his current interest and concern are "Industrial Biofilm Detection Ways and their Application" and the related research topics.

biofilm, biofouling, infection, stickiness

1. Biography

Dr. Hideyuki Kanematsu, Ph.D. FIMF (a Fellow of IMF) is a Full Professor in the Department of Materials Science and Engineering, at the National Institute of Technology (NIT) (KOSEN), Suzuka College in Japan. After holding many administrative positions in the college (Dean of the Department of MS and E, 2010–2014, Deputy President, 2014–2018, etc.), he is still a researcher in Materials Surface Science and Engineering and the research advisor for the college. Dr. Kanematsu is particularly interested in biofilms and the interfacial phenomena between metallic surfaces and organisms from an environmental science point of view. He holds a B.Eng. (1981), a M.Eng. (1983) and a Ph.D. in Materials Science and Engineering (1989) all from Nagoya University. He is a member of the National Association for Surface Finishing (NASF, the USA), as well as the Institute of Metal Finishing (IMF, the UK), the Minerals, Metals and Materials Society (TMS, the USA), ASM International (the USA), Electrochemical Society (ECS, the USA), American Chemical Society (ACS, the USA), the Japan Institute of Metals (JIM) and the Iron and Steel Institute of Japan (ISIJ), Surface Finishing Society of Japan (SFSJ, Japan), the Electrochemical Society of Japan (ECSJ), the Japan Society for Heat Treatment (JSHT), Japan Thermal Spray Society (JTSS), etc. For all of these organizations, he is still very active as a member and also as a board member. He also has many honors and publications to his name. He was awarded a Marquis Who's Who Lifetime Achievement award for his Outstanding Career and is an NASF Scientific Achievement Award Winner.

2. Achievements and carrier development

ACADEMIC BACKGROUND

- 1976 Graduation from Mikunigaoka High School
- 1981 A Bachelor of Engineering, Nagoya University (Materials Science and Engineering)
- 1983 A Master of Engineering, Nagoya University (Materials Science and Engineering)
- 1989 Ph.D, Nagoya University (Materials Science and Engineering)

CAREER TRACK

- 1986-1990 Research Associate, Dept. MS & E, Faculty of Engineering, Nagoya University
- 1990-1992 Research Associate, Dept. MS & E, Faculty of Engineering, Osaka University
- 1992-1994 Research Associate, Dept. MS & E, Suzuka National College of Technology
- 1994-1997 Assistant Professor, Dept. MS & E, Suzuka National College of Technology
- 1997-2007 Associate Professor, DepMS & E, Suzuka National College of Technology
- 2007- Full Professor, Dept. MS and E, Suzuka National College of Technology
- 2008-11/2010 Member, Expert committee for Grants-in-Aid for Scientific R, Japan
- 2009-2010 Director of Information Processing Center, Suzuka National College of Technology (concurrently) (till March, 2010)
- 2009(June) Visiting Professor, Center for Advanced Materials Processing), Clarkson Uni, NY
- 2009(August) Visiting Professor of CEI (Creativity Engineering Institute), Yonsei University Complex (Seoul, Korea)
- 2010-2012 Vice Director of Academic-Industrial Cooperation Center, Suzuka National College of Technology(till March, 2012)
- 2010-2014 Dean, Dept. Materials Science & Engineering, Suzuka National College of Technology
- 2014-2018 Deputy President, National Institute of Technology, Suzuka College
- 2016- Board Member, Head Quarter of Research, Development, Academic Industrial Alliance, National Institute of Technology
- 2019(Apr)- Research Advisor of NIT, Suzuka College (2019-Present)

AWARDS/COMPETENCY

- **Outstanding Achievement Award** by American Chemical Society (August, 2002)
- President Award by Association of National Colleges of Technology, Japan (November, 2003)
- Educational Incentive Award by Suzuka National College of Technology (December, 2003)
- **ChemLuminary Award** (American Chemical Society: ACS) (August, 2004)
- **Long Service Award for 20 years (Institute of National Colleges of Technology, Japan)** (11/22/2006)
- **Second Place, American Chemical Society's ChemLuminary Award in Public Relations (8/2007)**
- **FIMF (a Fellow of Institute of Metal Finishing)** (November, 2007)
- **Leading Scientist of the World-2008** (I.B.C, UK, January, 2008)
- **Great Mind of The 21st Century**, 2007/08 (A.B.I:American Biographical Institute, Mar 2008)
- Selected for Inclusion in 1st and 2nd Edition of Marquis Who's Who in Asia (2006, 2012)
- Best Reviewers Award (High Tem Soc./Smart Processing Soc. for Matls, Env. & Energy) 3/2012

- Scientific Achievement Award (NASF: National Association for Surface Finishing, USA) June, 2012
- Selected for inclusion in 5th, 9th, 10th, 26th and 30th to 37th Editions of Marquis Who's Who in the World (1998, 2006, 2008, 2009, 2013-2020)
- Molten Salt Award (The Molten Salt Committee, the Electrochemical Society of Japan, 2016)
- Key Note Lecture, Knowledge- Based Intelligent Information & Engineering Systems Intl. 2018, Belgrade,
- ***The 2019 Albert Nelson Marquis Lifetime Achievement Award (2019)***
- Award for Excellence, National Institute of Technology (KOSEN) (2019)
- ***Outstanding Achievement Award, MRS Japan (2019)***

ACADEMIC ACTIVITIES (Selected)

- ***The In committee member of the International Materials Review (ASM) 2012-present***
- ***Member of the ASM AM&P Committee 2016-***
- Publication Committee Member of Institute of Metal Finishing, 2002-
- Editorial Board Member of Japan Institute of Metals, 2003.4-2005.3
- Editorial Board Member of Tokai Kagaku Kougyoukai, 2001.4-2007.4
- Councilor of Tokai Branch for Japan Institute of Metals 2002.4-2004.3, 2006.4-2008.3
- Editorial Board Member for Journal of Environmental Control Technique, 2009.6-
- ***The organizer of Molten Salt Sym, 79th meeting of Electrochemical Society, Japan. 2012-***
- Representative Symp. organizer for Bio/adv. Materials, 30th convention, MRS-Japan (4/19-11/19)
- Program Committee Member, Organization Committee Member and Local Executive Committee member for Interfinish 2020-20th World Congress and Exhibition (10/2019-12/2020)
- Executive committee member, 87th Conv. of The Electrochemical Society of Japan (10/2019-3/2020)
- A Secretary of Molten Salt Committee, The Electrochemical Society of Japan, 2011-
- Chairperson, Iron and Steel Institute of Japan forum, "Environment Evaluation and Utilization Forum of Iron and Steel Processing", 2011-2016
- A Special Advisory Board member of ***WebmedCentral***, 2012.2, 2012.8- *Scholarly Reviewer* 2012.2-
- A member of the board of directors for Japan Society of Heat Treatment (JSHT). (2013.6-2016)
- A member of the board of directors for the Association of Tokai Engineering Education (2014 – Present)
- Permanent Executive Secretary of Central Branch, Surface Finishing Society, Japan, (2014 –Present)
- Board member of Surface Finishing Society of Japan (SFSJ), (2015-2017, 2019-)
- Vice Secretary General of Central Branch, Japan Society of Heat Treatment (2015- 2020)
- The board member of representatives for Japan Thermal Spray Society (2017-Present)

SOCIAL CONTRIBUTION

- Member, Mie Prefecture Japan Judging Committee of Grant-in-Aid for Program to Promote Manufacturing Products Made in Mie (2012-2016)
- Member, Mie Prefecture (Japan) Subcommittee for Strategic Manufacturing (2015-2016)
- Mie Prefecture Promotion Comm. for Small and Medium Sized Business in North Ise Area ('14-'15)
- Vice Chair, Mie Prefecture (Japan) A Member of Human Resources Dev Council, Vice Chair (2016-)
- Advisor for Basic Research Collegium of Mie Prefectural Industrial Research Institute. (2017)

AFFILIATE SOCIETIES

ASM International, Institute of Metal Finishing(IMF), ***The Minerals, Metals And Materials Society, The American Chemical Society,Electrochemical Society***, National Association of Surface Finishing (NASF) Japan Institute of Metals, The Iron And Steel Institute of Japan(ISIJ), The Electrochemical Society of Japan, Japanese Society for Engineering Education, Surface Finishing Society of Japan, Japan Society of Heat Treatment, The Molten Salt Committee, Japan Institute of Marine Engineering, Smart Processing Society for Materials, Environment and Energy, Tokai Chemical Industry Association, Japan Thermal Society

Books/Book Chapters: (Total 28)

Publications: (Total 520)

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