

Curriculum Vitae (May 2026)



Name: Takeshi KIKUTANI

Qualification: Doctor of Engineering (Tokyo Institute of Technology, 1982)
Professor Emeritus (Tokyo Institute of Technology (Currently, Institute of Science Tokyo), 2020)

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Education: 1977 Bachelor of Engineering, Tokyo Institute of Technology
1979 Master of Engineering, Tokyo Institute of Technology
1982 Doctor of Engineering, Tokyo Institute of Technology
Thesis title: "Mechanism of Fiber Structure Development in High-Speed Melt Spinning of Poly(ethylene terephthalate)"

Career: **1982-1991 Assistant Professor, Tokyo Institute of Technology**
1986-1987 Visiting Scientist, University of Akron, USA
1991- 2001 Associate Professor, Tokyo Institute of Technology
2001-2020 Professor, Tokyo Institute of Technology
2016-2018 Member of the Educational and Research Council
2018-2020 Member of Management Committee
2020- 2026 Specially appointed professor, Tokyo Institute of Technology

Concurrent appointments:

2022- *Project Professor: Center for Fiber and Textiles Science, Kyoto Institute of Technology*
2024- *Specially Appointed Professor: Institute for Fiber Engineering and Science, Shinshu University*
2024- *Visiting Professor: Research Institute of Environment and Information Science, Yokohama National University*

Honors:

2025 Founder's Award, The Fiber Society (USA)
2024- Honorary member, The Society of Fiber Science and Technology, Japan
2022- Fellow, The Society of Polymer Science, Japan
2021 Achievement Award, The Society of Fiber Science and Technology, Japan
2021 Achievement Award, The Society of Polymer Science, Japan
2020- Honorary member, Japan Society of Polymer Processing
2012- Fellow, The Textile Machinery Society of Japan
2009 Outstanding Paper Award, Japan Society of Polymer Processing
1999 Society Award, The Society of Fiber Science and Technology, Japan
1991 Outstanding Paper Award, Japan Society of Polymer Processing
1988 Outstanding Paper Award, The Society of Fiber Science and Technology, Japan
1984 Sakurada Takeshi Award, The Society of Fiber Science and Technology, Japan

Academic Activities:

Presidency:

- 2020-2022 President, The Fiber Society (USA)
- 2018-2020 Chair, Japan Society for the Promotion of Science, University-Industry Cooperative Research Committees, 120th Committee, Processing for Functionality of Fibers and Polymers
- 2014-2018 President, The Society of Fiber Science and Technology, Japan
- 2012-2014 President, Japan Society of Polymer Processing
- 2009-2011 President, Polymer Processing Society (International)

Other Activities:

- Immediate Past-President, The Fiber Society (USA) (2023-2024)
- Vice President, The Society of Fiber Science and Technology, Japan (2006-2010, 2012-2014)
- Vice President, Japan Society of Polymer Processing (2000-2002, 2004-2006)
- Member of Executive committee, Polymer Processing Society (International) (2007-2023)
- Governing Council Member, The Fiber Society, USA (2016-2019)
- Associate Editor, Advanced Fiber Materials (2019-)
- Editor-in-Chief, Sen'i Gakkaishi (J. of The Society of Fiber Science and Technology, Japan) (2002-2006)
- Editor for Asia-Australasia, International Polymer Processing (1997-2009)
- Associate Editor, Fibers and Polymers (2000-2018)

Invited Lectures:

Plenary Lectures

- 1) "Melt Spinning of Bicomponent Fibers – Fundamentals and Applications –", International Symposium on Fiber Science and Technology (ISF) 2024, November 25-28, Kyoto, Japan.
- 2) "Crystallization and Melting Behavior of Oriented Amorphous Polymers Revealed by High-Speed DSC Measurement", Asian Workshop on Polymer Processing (AWPP) 2024, November 3-6, 2024, Jeju, Korea.
- 3) "Environmental Friendliness of Polyester Fibers", Inaugural Program, PPS Asia-Australasia Regional Conference, PPS-2023, November 29, 2023, Kerala, India.
- 4) "Advanced Sustainable Fiber Technologies for Polyesters", The spring Conference 2023 commemorating the 60th anniversary of the Korean Fiber Society, April 19 – 21, 2023, Jeju, Korea
- 5) "Fundamental Research on Polymer Processing – Focusing on Elongational Process –", 32nd Annual Conference of the Japan Society of Polymer Processing, June 16-17, 2021 (online)
- 6) "Dimensional Change of Oriented Polymers upon Heating", 35th International Conference of the Polymer Processing Society, Cezme, Turkey, May 26-30, 2019
- 7) "Fiber Formation in Melt Spinning of Olefin Polymers", Polymer Engineering & Science International, Yonezawa, Japan, September 4-7, 2019
- 8) "Fiber Formation through Melt Spinning of Bio-based Polymers", Fiber Society Spring 2019 Conference, Hong Kong, China, May 21-23, 2019
- 9) "Application of High-Speed Melt Spinning Process for Enhanced Fiber Structure Formation of PHBH", 2015 International Conference on Advanced Fibers and Polymer Materials, Shanghai, China, May 24-27, 2015
- 10) "Effect of Structure Formation on Processing Behavior in Fiber and Film Processing", The 28th International Conference of Polymer Processing Society, Pattaya, Thailand, December 11-15, 2012
- 11) "Elastomeric Fibers: Processing-Structure-Property Relationship", Polymer Processing Society America Conference, Niagara Falls, Canada, May 21-24, 2012
- 12) "Challenges in the Fiber Processing in the Next Decade", The 11th Asian Textile Conference, Daegu, Korea, November 1-4, 2011

- 13) "Utilization of Bicomponent Melt Spinning Process for the Preparation of Fibers with Optical Functionality", 1st Polymer Conference of Thailand, Bangkok, Thailand, October 7-8, 2010
- 14) "Control of higher-order structure of fibers through modification of melt spinning process", The Polymer Processing Society 23rd Annual Meeting, Salvador, Brazil, May 27-31, 2007

Invited/Keynote Lectures

- 1) Yuki Fukuda, Seiji Shibata, Wataru Takarada, Takeshi Kikutani, "Effect of Orientation on Crystallization of Polymers", Polymer Processing Society 36th Annual Conference, Montreal, Canada, September 26-30, 2021 (online)
 - 2) Nanjaporn Roungpaisan, Wataru Takarada, Takeshi Kikutani, "Development of Polylactide Fibers Consisting of Highly Oriented Stereo-complex Crystals through Bicomponent Melt Spinning of PLLA and PDLA", Polymer Processing Society Europe-Africa Conference 2019, Pretoria, South Africa, November 18-21, 2019
 - 3) Yuta Sekiguchi, Wataru Takarada, Takeshi Kikutani, "Melt-Processed Polyethylene Products Containing Micro-Fibrillated Cellulose Fibers", Nano Thailand 2018, Bangkok, Thailand, December 14, 2018
- And many more -

Teaching: (Outside of Tokyo Institute of Technology)

2022- "Advanced Fiber Technology", WE-TEAM (Erasmus Mundus Joint Master Degree program), Gent University, Belgium
 2013-2024 "Non-metallic Materials", Graduate School of Science and Engineering, Hosei University, Japan

Research interests:

Structure development in the processing of polymers (fibers and films)
 Structure and properties of polymers (fibers and films)
 High-speed melt spinning
 Multi-component melt spinning
 Fiber-reinforced composites

Summary of Achievements:

Reviewed Journal Papers	206
Books (editor, co-editor, co-author)	73
Review Articles	43
Patent Applications	43 (Registered 24)