

Curriculum Vitae of Professor Akira Sekiguchi

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Akira Sekiguchi is Professor of Organic Chemistry at the University of Tsukuba. He was born in Gunma, Japan, in 1952. He obtained his B. Eng. and M. Eng. from Gunma University under the Direction of Professor Toshihiko Migita in 1974 and 1976, respectively. He received his D. Sc. from the University of Tsukuba in 1981 under the direction of Professor Wataru Ando. He became a Research Fellow in 1978, an Assistant in 1981, and an Assistant Professor in 1982 at the University of Tsukuba. In 1987, he moved to the organosilicon research laboratory in Tohoku University as an Associate Professor and worked with Professor Hideki Sakurai. He worked with Professor Robert West, University of Wisconsin, Madison, for one year from 1986 to 1987 as a postdoctoral fellow. In 1996, he returned to the University of Tsukuba as a full Professor. He received the Japan IBM Science Award in 1996 and the Divisional Award of the Chemical Society of Japan (Organic Chemistry) in 1997, Alexander von Humboldt Research Award in 2004, Frederic Stanley Kipping Award in 2006, The Chemical Society of Japan Award in 2012, The 2012 Best Faculty Member Award of University of Tsukuba, Doctor Honoris Causa of the University Paul Sabatier (Toulouse, France) in 2013, Medals with Purple Ribbon 2014, WACKER Silicone Award in 2014, Award of The Society of Silicon Chemistry Japan 2016, The 6th Kim Yong Hae Lectureship Award in 2016. His research fields are Organic Chemistry, Structural Chemistry, Main Group Element Chemistry, Organometallic Chemistry, Theoretical Chemistry. He is the author of about 300 original papers and 50 review articles, and 18 books.

Educational Background:

1970-1974: B. Eng., Chemistry, Gunma University

1974-1976: M. Eng., Chemistry, Gunma University

1976-1978: PhD, Chemistry, University of Tsukuba

1981: Dr. Sc., Chemistry, University of Tsukuba

Professional Career:

1996-present: Professor, University of Tsukuba

2010-2013: Chair and Director in Chemistry and Graduate School of Pure and Applied Sciences, University of Tsukuba

2004-2007: Visiting Professor at Technische Universität Berlin, Germany

2002-2004: Chair of Doctoral Program in Chemistry, University of Tsukuba

2002-2004: Dean of Chemistry Department, University of Tsukuba
2001-2002: Director of Radioisotope Center, University of Tsukuba
1987-1996: Associate Professor, Tohoku University
1986-1987: Postdoctoral Fellow, University of Wisconsin, U.S.A. (Prof. R. West)
1982-1986: Assistant Professor, University of Tsukuba
1981-1982: Research Associate, University of Tsukuba
1978-1981: Research Fellow in Chemistry, University of Tsukuba

Academic Distinctions:

1997: International Advisory Board Member of 8th International Conference on Inorganic Ring Systems (Loughborough, UK)
1999: Organizing Committee Member of The 12th International Symposium on Organosilicon Chemistry (ISOS XII, Sendai, Japan)
2000: International Advisory Board Member of 9th International Conference on Inorganic Ring Systems (Saarbrücken, Germany)
2001: Chairman of The 10th Japan-Korea Joint Symposium on Organometallic and Coordination Chemistry (Tsukuba, Japan)
2001: National Scientific Committee Member of XVth International Conference on Phosphorus Chemistry (ICPC 15, Sendai, Japan)
2002: Organizer of The 11th Japan-Korea Joint Symposium on Organometallic and Coordination Chemistry (Pusan, Korea)
2003: International Advisory Board Member of 10th International Symposium on Inorganic Ring System (IRIS X, Vermont, USA)
2003: International Advisory Board Member of Third International Conference on the Chemistry of the Alkali and Alkaline Earth Metals (ALKCHEM-3, Würzburg, Germany)
2005: International Advisory Board Member of The 14th International Symposium on Organosilicon Chemistry (ISOS XIV, Würzburg, Germany)
2005: Organizer of Recent Development in Organoboron and Organosilicon Chemistry: 2005 International Chemical Congress of Pacific Basin Societies (Honolulu, USA)
2006: International Advisory Board Member of 11th International Symposium on Inorganic Ring System (IRIS XI, Oulu, Finland)
2007: Organizing Committee Member of OMCOS 14. The 14th IUPAC International Symposium Organometallic Chemistry directed towards Organic Synthesis (Nara, Japan)
2008: International Advisory Board Member of The 15th International Symposium on Organosilicon Chemistry (ISOS XV, Jeju, Korea)
1998-2000: A Secretary Member of the Chemical Society of Japan, Kanto Branch
1996-2008: Director of The Society of Silicon Chemistry Japan
2008: International Advisory Board Member of The 15th International Symposium on Organosilicon Chemistry (ISOSXV, Jeju, Korea)
1996-1999: Associate Editor of Bulletin of the Chemical Society of Japan
2002-2004: International Editorial Advisory Board Member of Organometallics
2002-2005: Associate Editor of Chemistry Letters
2008: Lectureship, National Science Council (Taiwan)

- 1974-present: Member of the Chemical Society of Japan
- 1982-present: Member of the American Chemical Society
- 1996-present: Member of the Society of Silicon Chemistry Japan
- 2008-present: International Advisory Board Member of The Asian Silicon Symposium
- 2008-present: A Member of the International Editorial Advisory Board in Physical Organic Chemistry
- 2002-present: A Permanent Secretary of Symposium on Organometallic Chemistry, Japan
- 2010: Organizing Committee Member of The 10th International Conference on Heteroatom Chemistry, (Kyoto, Japan)
- 2010: Organizing Committee Member of 5th Pacific Symposium (PSRC-5) on Radical Chemistry, (Osaka, Japan)
- 2013: Organizing Committee Member of XXVI International Conference on Organometallic Chemistry (ICOMC 2014) (Sapporo, Japan)
- 2012-2014: President of The Society of Silicon Chemistry Japan
- 2015-present: Honorary Member of The Humboldt Association of Japan

Honors

- 1991: Progress Award in Synthetic Organic Chemistry, The Society of Synthetic Organic Chemistry, Japan
- 1996: IBM Science Award, Japan IBM
- 1997: Divisional Award of the Chemical Society of Japan, The Chemical Society of Japan
- 2004: Alexander von Humboldt Research Award
- 2006: Frederic Stanley Kipping Award
- 2012: Award of the Chemical Society of Japan
- 2012: Best Faculty Member of University of Tsukuba
- 2013: Doctor Honoris Causa of the University Paul Sabatier (Toulouse, France)
- 2014: Medals with Purple Ribbon
- 2014: WACKER Silicone Award
- 2016: Award of The Society of Silicon Chemistry Japan
- 2016: The 6th Kim Yong Hae Lectureship Award

Field of Research:

Chemistry of Group 14 Elements, particularly Organosilicon Chemistry: Synthesis and study of chemical bonding in multiple bonded silicon compounds, strained silicon compounds, silylenes, trivalent silyl ions, silyl radicals, polysilanes, and reactive intermediates.