


<p>Takuya HASEGAWA, Ph.D. Place of Birth Kyoto, Year of Birth 1963</p>	
<p>Affiliation: Birdy Fuel Cells LLC Hosei Business School of Innovation Management GMBA Program Tokyo Institute of Technology School of Environment and Society</p>	
<p>Message to the student: <i>"This book is about the failure of companies to stay atop their industries when they confront certain types of market and technological change":</i> This is the beginning of Christensen's famous book "The Innovator's Dilemma". As he pointed out, most of the failures of large corporations are caused by the direction of their efforts rather than the magnitude of their efforts, but hints to avoid this can be found in various historical junctures such as the scientific revolution of the 17th century, Japan after World War II, and the information industry after the Internet. We will consider the stagnation of innovation and the mechanisms of action involved in overcoming it from the different perspectives of the two courses in charge.</p>	
<p>Specialty: Innovation Science, Two-Dimensional (2D) Manufacturing, Fuel Cell, Hydrogen Society</p>	
<p>Courses: Japanese Management (Fall), Japanese Production and Supply Chain Management (Spring)</p>	
<p>Background: 1989 Asahi Kasei (-2006) 1997 The University of Texas at Austin, Chemical Engineering, visiting scholar (-1999) 2006 Nissan Motor (-2020) 2015 Hosei Business School of Innovation Management GMBA Program 2016 Doctor of Philosophy in Technology Management (Ritsumeikan University) 2020 Tokyo Gas 2021 Tokyo Institute of Technology, Specially Appointed Professor Birdy Fuel Cells LLC, Founder, Joint Representative, President & CTO</p>	
<p>Achievement:</p> <ol style="list-style-type: none"> 1) Lithium ion battery separators 2) Low Reynolds number fluid dynamics computer simulation for microporous structure formation 3) Proton exchange membranes and pleated humidification module for fuel cells (Person in charge) 4) Nitrogen-enriched air module for diesel engines (Person in charge) 5) New structure fuel cell stack and the rotary production technology (Person in charge) 6) FCEV (fuel cell electric vehicle) research prototype (Person in charge) 	

Selected publications and activities:

- Koyama, M.; Hasegawa, T.; Kajikawa, Y. Roadmap of Energy Technologies for Envisioning Future Energy Systems. In Energy Technology Roadmaps of Japan; Kato, Y.; Koyama, M.; Fukushima, Y.; Nakagaki, T., Eds.; Springer: Tokyo, 2016; pp. 13-19.
- Hasegawa, T.; Gemba, K.; Ishida, S. Self-sustainability of emerging hydrogen refueling stations and FCEVs in Japan. International Journal of Business and Systems Research 2015, 9, 375-393.
- Hasegawa, T. (2014). Papers on Environmental Information Science, 28, 119-124.
- Hasegawa, T. (2015). Papers on Environmental Information Science, 29, 147-152
- Hasegawa, T. (2016a). Chemical Engineering of Japan, 80(2), 86-90.
- Hasegawa, T. (2016b). Japan Society of Energy and Resources, 37(1), 22-27.
- Hasegawa, T. (2019). Journal of the Hydrogen Energy Systems Society of Japan, 44(4), 230-237.
- Hasegawa, T. (2020). Chemical Engineering of Japan, 84(1), 18-21.
- Hasegawa, T. (2020). Japan Society of Energy and Resources, 41(4), 216-220.
- Hasegawa, T. (2020). Journal of Japan Solar Energy Society, 46(6), 31-39.
- Hasegawa, T. (2020). Energy: Journal of the Japan energy association, 297, 32-46

Social activities

- 2010-2013 Expert of Japan, International Energy Agency, Hydrogen Implementing Agreement, Task28 LARGE SCALE HYDROGEN DELIVERY INFRASTRUCTURE
- 2012- Member, HyGrid Research Group
- 2012- Member, The Committee on Future Energy and Social Systems, The Society of Chemical Engineers, Japan
- 2016- Special Member, The Working Group on Social Implement Engineering, Society of Chemical Engineers, Japan
- 2018 Session Chair and Organizer, 83rd Annual Meeting of the Society of Chemical Engineers
- 2016-19 Vice Chair(2018-), Committee on Innovation Science for Envisioning Future, Japan Society for the Promotion of Science

Academic Society:

GERPISA

Certification:

Certified Specialist of Intellectual Property Management Class II

Working Environment Measurement Expert class I