


<p>Takuya HASEGAWA, Ph.D. Place of Birth Kyoto, Year of Birth 1963</p>	
<p>Affiliation: Leading-Edge Energy System Research Institute, Tokyo Gas Co., Ltd. Hosei Business School of Innovation Management GMBA Program Waseda University Environmental Research Institute</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. This is the beginning of the famous book "The Innovator's Dilemma" (Christensen 1997). As Christensen pointed out, the failure of large companies is mostly due to 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 in the 17th century, Japan after World War II, and the information industry after the Internet. Hints to avoid this can be found in various historical junctures such as the scientific revolution in the 17th century, Japan after World War II, and the information industry after the Internet. Innovation science focusing on stagnation of innovation and overcoming it will be considered from the different perspectives of the two assigned courses. We will consider innovation science focusing on stagnation and overcoming innovation from the different perspectives of the two assigned courses.</i></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</p>	
<p>Achievement: 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)</p>	

<p>Academic Society: Society of Automotive Engineers of Japan, The Society of Chemical Engineers, Japan, GERPISA</p>
<p>Certification: Certified Specialist of Intellectual Property Management Class II Working Environment Measurement Expert class I</p>

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.
- 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