

演講公告

時間:2023/02/14 (二) 下午 14:30 ~ 15:50

地點: E2-102 階梯教室

演講者:日本產業技術綜合研究所 TIA 推進中心顧問 栗津浩一 博士

(Dr. Koichi Awazu, Counselor, TIA Central Office, National Institute of Advanced Industrial Science & Technology (AIST))

講題: **The country context in Japan in semiconductors and the strategy for the resilient supply chain**

(日本半導體產業的國家背景及彈性供應鏈戰略)

演講概要:

The Japanese government regards the development of advanced semiconductors as the most critical issue. Japan and the United States launched a new high-level economic dialogue and agreed to establish a new joint research center for next-generation semiconductors last year. The Japanese government established the LSTC (Leading-edge Semiconductor Technology Center). The LSTC will collaborate as the counterpart of The National Semiconductor Technology Center in the USA. Also, the Rapidus Corporation for mass production of the 2nm generation semiconductors collaborating with IBM was established last year.

Let's look at the relationship between Japan and Taiwan. We remember the sensational press coverage of establishing the TSMC 3D IC R&D Center in the AIST Campus (2021) and the TSMC factory in Kumamoto (2022). We also know that TSMC has started to look for a candidate place for another factory in Japan.

I will talk about the background of this movement and why R&D for advanced semiconductors requires international collaboration.

(演講者英文簡歷如下)

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TEACHING EXPERIENCE

2001-present, Adjunct professor, Kanagawa Institute of Technology

2006-2009, Adjunct professor, Department of Mechanical Engineering, The
University of Tokyo

2002-2004, Adjunct professor, Institute for Molecular Science, Okazaki, Japan

After receiving my Ph.D at Tokyo Institute of Technology, I joined the former AIST, Agency of Industrial Science & Technology, MITI, in 1991 and performed application research with high-energy beams from 1991 to 1996. I spend sabbatical years at Department of Physics, Université de Montréal to study the application of swift heavy ion from 1996 to 1998.

Since 2001, I have worked in NEDO as a director for information technology and semiconductor, contributing to planning the national project for one year. After I returned to AIST, I became a leader of the nanophotonic research team from 2003 to 2010. As a director of the Planning Office in electronics and IT from 2009 to 2012, our team planned the R & D strategy in electronics and IT at AIST. I returned to my research team as a deputy director of the Electronic & Photonic Research Institute from 2012 to 2015. As a representative, I contributed to the AMED project to fabricate a tiny sensor to detect viruses and collaborated with medical doctors. Since 2015, I have had a mission of international affairs at AIST. I drew several research contracts and memorandum of understanding (MoU) with foreign research institutes. I contributed to the MoU between AIST and ITRI, MOST in Taiwan. Also, I have a mission to find a research collaboration with companies. Our team was successfully inviting TSMC R & D Center to AIST Campus in 2021. So now, I am contributing to establishing a new national research organization named LSTC (Leading-edge Semiconductor Technology Center).