

International Symposium on University Globalization 2014 - How to Foster Skilled Students and Young Staff -



Tohoku University Tokyo Branch Office, June 28, 2014

Co-sponsored by 2014 RIEC Collaboration Project Research (Unlicensed Band Wireless Communications)
Institute for Excellence in Higher Education, Tohoku University
Worcester Polytechnic Institute, Center for Teleinfrastruktur (CTIF)-Japan, Aalborg University

This international Symposium is intended to discuss and share the information on how to foster skilled students as the outcome of the Engineering Schools by inviting speakers from the institutes actively promoting industry-collaborating education such as Project/problem based learning, industry-sponsored learning globally.

International Symposium on How to Foster Skilled Students and Young Staff

- Location: Tohoku University Tokyo branch office (<http://www.bureau.tohoku.ac.jp/somu/bun/bun.html>)
- Time (date): 10:00 – 17:35 (June 28, 2014)
- Working language: English (Questions in Japanese are welcome)
- Participation fee: ¥1,000 (for proceedings)

Agenda

- 09:30 – 09:45 **Opening, Shu Kato** (RIEC, Tohoku University, Japan)
“The Goal of the International Symposium on How to Foster Skilled Students and Young Staff”
- 09:45 – 10:15 **Keynote speech**
Prof. Tsutomu Kimura (Senior Advisor to MEXT, Japan)
“Imperial College of Engineering in Japan ; 1873-1886”
- 10:15 – 12:15
(1) **Prof. Kaveh Pahlavan** (Worcester Polytechnic Institute, USA)
“Project Based Learning, Entrepreneurship and Engineering Education for the Third Industrial Revolution”
- (2) **Prof. Alben Mihovska** (CTIF, Aalborg University, Denmark)
“Inter/Cross-disciplinary and Problem-based Approach to Academia Learning at CTIF Global”
- (3) **Prof. Yeo Kiat Seng** (Nanyang Technological University, Singapore)
“The New Undergraduate Experience: Industry-Sponsored Programme”
- (4) **Prof. Masakatsu Matsuishi** (Kanazawa Institute of Technology, Japan)
“Engineering Education at Kanazawa Institute of Technology: Combination of Formal Lectures & Extracurricular Activities”
- 12:15 – 13:15 Lunch break
- 13:15 – 15:45
(5) **Prof. Jong-Moon Chung** (Yonsei University, Korea)
“Problem Based Learning in College of Engineering at Yonsei University”
- (6) **Prof. Akira Fukuda** (Information and Science Institute, Kyushu University, Japan)
“An Approach to Foster Highly Skilled Embedded-System-Technology Graduates through PBL and a Contest”
- (7) **Prof. Jiro Tanaka** (University of Tsukuba, Japan)
“PBL programs at Computer Science Department, University of Tsukuba”
- (8) **Prof. Katsuro Inoue** (Graduate School of Inf. and Sci. Technology, Osaka University, Japan)
“Education Network for Practical Information Technologies in Japan”
- (9) **Prof. Lorenz Granrath** (Visiting Lecturer, Waseda University, Japan)
“Internships - Practical and International Experience in University Education in Germany”
- 15:45 – 16:15 Coffee break
- 16:15 – 17:30
(10) **Panel “How to Foster Skilled Students and Young Staff - through PBL?”**
Moderator: Prof. Shu Kato (RIEC, Tohoku University, Japan)
Panelists: All speakers
- 17:30 – 17:35 **Closing**

- Reception 17:40-19:10 Fee: ¥3,000 (¥1,000 for students)
- Registration/参加申込: Please email to Ms. Naomi Aizawa at katolab@riec.tohoku.ac.jp (Tel:022-217-5477)
(Due to limited hall capacity, advanced registration is suggested: on a first-come-first-served basis)

Keynote Speaker

Prof. Tsutomu Kimura has been Senior Advisor to the Ministry of Education, Sports, Culture, Science and Technology of Japan since 2009. From 1998 to 2009, he was President of the National Institution for Academic Degrees and University Evaluation (NIAD-UE) of Japan. His previous position was President of Tokyo Institute of Technology. He had served as academic staff at Tokyo Institute of Technology for over 30 years as a professional of the fields of Geotechnical Engineering and Soil Engineering. He has contributed to the development of quality assurance of higher education internationally. He was Board Member of INQAAHE from 2003 to 2005. He was Vice Chairman for Central Council for Education and a member of Science Council of Japan until 2007. He received a Master of Engineering from the University of Tokyo and a doctoral degree from the Tokyo Institute of Technology. He was awarded Honorable Commander of the British Empire (C.B.E.) in 2004.



Speakers

Prof. Kaveh Pahlavan is a Professor of ECE, a Professor of CS, and Director of the Center for Wireless Information Network Studies, Worcester Polytechnic Institute, Worcester, MA. He is the founder and Editor-in-Chief of the International Journal on Wireless Information Networks and a member of the advisory board of the IEEE Wireless Magazine. He has founded and chaired a number of pioneering international conferences in wireless networking. He has been a Westin Hadden Professor of Electrical and Computer Engineering at WPI, a fellow of the IEEE, a fellow of the Nokia, a Fulbright-Nokia scholar and recipient of the Board of Trustees Award for Outstanding Research and Creative Scholarship at WPI



Prof. Albena Mihovska has a PhD degree in mobile communications from Aalborg University, Aalborg, Denmark, where she is currently an Associate Professor and Head of Standardisation and Head of Teaching at the Center for TeleInfrastruktur (CTIF). Currently, she is involved with research related to innovative research concepts for 5G communication systems, the design and implementation of eHealth services (EU project eWALL) and to optimizing and supporting reliable and high performance intensive data rate communications as required by the Internet of Things.



Prof. Yeo Kiat Seng is Associate Chair (Research) of the School of Electrical & Electronic Engineering at Nanyang Technological University (NTU) and serves as Board of Advisor of the Singapore Semiconductor Industry Association. Professor Yeo was the Founding Director of VIRTUS, a S\$50M research centre of excellence jointly set up by NTU and Singapore Economic Development Board. He is in the editorial board of IEEE Transactions on Microwave Theory & Techniques and hold/held key positions in many international conferences as Advisor, General Chair, Co-General Chair and Technical Chair.



Prof. Masakatsu Matsuishi received a Ph.D. from Osaka University in 1969. He worked at Hitachi Zosen Co. from 1966 to 1998. During this time, he became Manager of Electronics & Information Laboratory and Director of The Planning Office of New Business & Products. He worked as a visiting research scientist at The University of Iowa from 1984 to 1985. In 1999, he joined Kanazawa Institute of Technology (KIT). He was Dean of Engineering Practice Education from 2004 to 2011. Currently, he is Director of Project Education Center at KIT. Research interests include Engineering Education and Innovative Design & Manufacturing.



Prof. Jong-Moon Chung received his B.S. and M.S. degrees from Yonsei University in 1992 and 1994, respectively, and Ph.D. degree from the Pennsylvania State University in 1999. Since 2005, he has been a professor in the School of Electrical and Electronic Engineering, Yonsei University, Seoul, Republic of Korea (ROK). From 1997 to 1999, he served as an assistant professor and instructor in the Department of Electrical Engineering, Pennsylvania State University. From 2000 to 2005, he was with the School of Electrical and Computer Engineering, Oklahoma State University (OSU) as a tenured associate professor and director of the OCLNB and ACSEL labs. He has served as the General Co-Chair of IEEE MWSCAS 2011, Local Chair and TPC Co-Chair of IEEE VNC 2012, and Local Chair of IEEE WF-IoT 2014. He is also an Editor of the IEEE Transactions on Vehicular Technology and Co-Editor-in-Chief of the KSII Transactions on Internet and Information Systems (TIIS).



Prof. Akira Fukuda received the BEng, MEng, and PhD degrees in computer science and communication engineering from Kyushu University, Japan, in 1977, 1979, and 1985, respectively. After working for the Nippon Telegraph and Telephone Corporation and Kyushu University, Japan, he joined Nara Institute of Science and Technology, Japan, as a professor in 1994. Since 2001 and 2008, he has been a professor of Graduate School of Information Science and Electrical Engineering, and director of System LSI Research Center, Kyushu Univ., Japan.



Prof. Jiro Tanaka is a Professor of Department of Computer Science, the University of Tsukuba. His research interests include ubiquitous computing, interactive programming and computer-human interaction. He received a BSc and a MSc from University of Tokyo in 1975 and 1977. He received a PhD in computer science from University of Utah in 1984. He is a member of the ACM and IEEE.



Prof. Katsuro Inoue, the B.E., M.E., and D. E. degrees in information and computer sciences of Osaka University, Japan in 1979, 1981, and 1984, respectively. He was an assistant professor at the University of Hawaii at Manoa from 1984-1986. He was a research associate at Osaka University from 1984-1989, and assistant professor from 1989-1995, and a professor beginning in 1995. His interests are in various topics of software engineering such as software evolution, program analysis, and code clones. He is the primary organizer of enPIT project.



Prof. Lorenz Granrath studied Industrial Engineering at the Technical University of Karlsruhe followed by a doctorate at Sankt Gallen University in Management of Technology, for which he also spent one year at the University of Tokyo. During his studies he worked as an assistant researcher at a Fraunhofer Institute, after his graduation in technical consulting jobs and as project manager new technologies for a big electrics company. From 2001 until 2013 he built up the Fraunhofer Representative Office Japan and since several years acts as a member of the selection and now evaluation committee for international and practical education of doctoral students at Waseda University.



Prof. Shu Kato graduated with a Ph.D from Tohoku University and joined NTT Laboratory in 1977. In 1995, he established Pacific Communications Research Inc. and became President of Uniden in 1996. He became senior VP of Mitsubishi Wireless, Inc., (USA) in 1998, and established Omni Wireless, Inc., (USA) in 2001. He worked as VP, Teradyne Japan from 2002 to 2005 to learn why American companies are successful. In 2006, he joined NICT, Japan to help Japanese wireless industry in global competition, and became Professor at RIEC, Tohoku University in 2008. He has interviewed over 1,000 candidates in USA and over 1,000 in Japan for hiring. He has held over 100 patents (including a patent which became DOD (USA) standard).

