

CDIO ASIAN REGIONAL MEETING March 24-26, 2014



CDIO ASIAN REGIONAL MEETING 2014

The 2014 Asian Regional Meeting of the CDIO Initiative promoting engineering education reform with innovative and global perspectives will be held in Japan for the first time.

Engineering education in higher education institutions is facing a major paradigm shift all over the world. To produce engineers who can create innovations with ingenuity, what sort of engineering education programs are needed? How might we cultivate engineers who can succeed on a global scale, while fostering collaboration with local communities? The CDIO Initiative is a framework for engineering education reform that the Massachusetts Institute of Technology founded along with three Swedish universities in 2000. It has since expanded rapidly beyond the US and Europe as more than 100 leading universities and colleges in various regions of the world have joined the Initiative.

● CDIO Asian Regional Meeting 2014

Kanazawa Institute of Technology (KIT) will host the 2014 CDIO Asian Regional Meeting in cooperation with Kanazawa Technical College (KTC). Countries with remarkable and rapid economic growth, such as Singapore, Malaysia, Vietnam, and China, have been quick to recognize the importance of the education that the CDIO Initiative promotes, and higher education institutions in those countries have joined the CDIO Initiative partners in the US and Europe to bring about sustainable innovation in engineering education. With the aim to create engineering education which enables innovation in the next generation, it is expected that the Meeting can provide a platform for lively discussions on education reform among engineering educators and staff members from institutions of higher education, engineers from industry with invested interest in education, and others from Japan as well as the rest of Asia. Please join us!

● The Vision of the CDIO Initiative

The CDIO framework aims to provide an integrated curriculum focused on the actual practice of engineering through the “Conceive-Design-Implement-Operate” process of real-world products and systems development.

By offering such an education, the Initiative aims to educate the next generation of engineers who can:

1. master engineering fundamentals;
2. lead the design, development, and operation of new products and systems;
3. understand the strategic impact and importance of technological development and research in the real world.

■ Dates : **March 24-26, 2014**

■ Venue: **Kanazawa Institute of Technology**

Ohgigaoka Campus, Sakai Memorial Hall

7-1 Ohgigaoka, Nonoichi, Ishikawa, 921-8501, JAPAN

■ Theme: **Steps toward Sustainable Innovation in Engineering Education**

■ Sponsorship: **Nonoichi City, City of Kanazawa, Japanese Society for Engineering Education, Hokuriku Shin-etsu Society for Engineering Education, Japan International Cooperation Agency (JICA)**

Kanazawa Institute of Technology

CDIO Asian Regional Meeting Secretariat

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www.kanazawa-it.ac.jp/cdio

C *Conceive*

D *Design*

I *Implement*

O *Operate*

Kanazawa Institute of Technology



PROGRAM (Japan Standard Time)

March 23 (Sun.) 18:30~20:00 **Welcome Party** (Kanazawa Excel Hotel Tokyo)
March 24 (Mon.) 9:00~20:00 (Kanazawa Institute of Technology, Sakai Memorial Hall) (Lunch at Restaurant LA TERRA, Bldg.#21)

Welcome Address 9:00~ 9:10	<input type="checkbox"/> Ken-ichi Ishikawa , President, Kanazawa Institute of Technology, Japan
Keynote Lecture 1 9:10~10:00	<input type="checkbox"/> "A CDIO Review: Engineering Education for the 21st Century" Johan Malmqvist , Professor, Product Development, Chalmers University of Technology, Sweden. Co-leader and Co-founder of the CDIO Initiatives
Keynote Lecture 2 10:20~11:10	<input type="checkbox"/> "Enhancement of University Reform and Quality Change of Education" Kumiko Bando , Deputy Minister, Ministry of Education, Culture, Sports, Science and Technology, Japan
Keynote Lecture 3 11:10~12:00	<input type="checkbox"/> "The Ideal Engineer: What Industry is Looking For" Kazuhiko Tsutsumi , Executive Officer, Vice President, Corporate Research and Development, Mitsubishi Electric Corporation, Japan
Plenary Session 1 13:30~15:00	<input type="checkbox"/> "Innovative Engineering Education with Community-Based Projects at Kanazawa Institute of Technology" Keiichi Sato , Dean of Academic Affairs, and Professor, Mechanical Engineering, Kanazawa Institute of Technology, Japan
	<input type="checkbox"/> "Engineering Education Initiatives at KTC" Robert Songer , Assistant Professor, Global Information Technology, Kanazawa Technical College, Japan
	<input type="checkbox"/> "Effects of Industry-Academia Collaborative Education in KIT Re-Design Apartment Project" Tomohiro Miyashita , Associate Professor, Architectural Design, Kanazawa Institute of Technology, Japan
	<input type="checkbox"/> "Activity of KIT Geospatial Information Project" Masaaki Shikada , Dean of Major Basic Education, and Professor, Civil and Environmental Engineering, Kanazawa Institute of Technology, Japan
	<input type="checkbox"/> "On the PBL Education Program For Developing Students' Skills of Creativity and Innovation" Eiichi Sentoku , Chair and Professor, Practical Engineering Education Program, Kanazawa Institute of Technology, Japan
	<input type="checkbox"/> "The Factory for Dreams and Ideas: Workspaces to Support and Encourage Hands-on and Experiential Learning of C-D-I-O" Masakatsu Matsuishi , Director, Project Education Center, Kanazawa Institute of Technology, Japan
Introductory Workshop 15:30~17:00	<input type="checkbox"/> "Designing a CDIO Programme: The CDIO Syllabus and Standards" Helene Leong , Director, Department of Educational Development, Singapore Polytechnic, Singapore. Co-chair of CDIO Asian Region
Campus Tour 1 15:30~17:00	<input type="checkbox"/> Ohgigaoka Campus, Bldg. #26 & #41 (<i>Yumekobo</i> : Factory for Dreams and Ideas)

OBanquet 18:00~20:00 at Kanazawa Excel Hotel Tokyo

March 25 (Tue.) 9:10~17:30 (Kanazawa Institute of Technology, Sakai Memorial Hall) (Lunch at Restaurant LA TERRA, Bldg.#21)

Invited Lecture 1 9:10~10:00	<input type="checkbox"/> "Engineering Education in Japan" Youichi Kenmochi , Executive Director, Japanese Society for Engineering Education, Japan
Invited Lecture 2 10:20~11:10	<input type="checkbox"/> "'Just for fun' crosses borders : Unity as a knowledge canal" Hiroki Omae , Regional Director/Product Evangelist, Unity Technologies Japan
Invited Lecture 3 11:10~12:00	<input type="checkbox"/> "SRI's Five Disciplines of Innovation -Sustainable Entrepreneurship is Key to a Strong Economy-" Youssef Iguidr , Japan Representative Director and Senior Director of Business Development, Stanford Research Institute (SRI) International, Japan
Plenary Session 2 13:30~15:00	<input type="checkbox"/> "Systems Thinking and Engineering-based 'Global Project Based Learning' " Hiroshi Hasegawa , Professor, Machinery and Control Systems, Shibaura Institute of Technology, Japan
	<input type="checkbox"/> "Recent Innovations in Engineering Education in Hub Center for Engineering Education of Yeungnam University" Dong Joo Song , Professor, Mechanical Engineering, Yeungnam University, Korea
	<input type="checkbox"/> "Reshaping Engineering Learning from a Social Design Perspective" Wen-Ling Hong , Assistant Professor, Naval Architecture and Ocean Engineering, National Kaohsiung Marine University, Taiwan (R.O.C.)
	<input type="checkbox"/> "CDIO Implementation at VNU-HCM: From Pilot to Widespread Implementation" Trinh T. M. Doan , Associate Professor, Mechanical Engineering, Vietnam National University-Ho Chi Minh, Vietnam
Advanced Workshop 15:30~17:00	<input type="checkbox"/> "Introduction to Design Thinking: Reframing Problems into Opportunities" Omihito Matsushita , Associate Professor, Global Information Technology, Kanazawa Technical College, Japan
Campus Tour 2 15:30~17:00	<input type="checkbox"/> Yatsukaho Research Campus
Closing Address 17:15~17:30	<input type="checkbox"/> Hirofumi Yamada , President, Kanazawa Technical College, Japan

March 26 (Wed.) 9:10~12:00 (Kanazawa Institute of Technology, Bldg.#23 Innovation and Design Studio)

Plenary Session 9:10~10:00	<input type="checkbox"/> "Sustaining educational change - The Case of a Strategic and Long-Term CDIO Implementation at Chalmers University of Technology" Johan Malmqvist , Professor, Product Development, Chalmers University of Technology, Sweden. Co-leader and Co-founder of CDIO
(Beginners) 10:20~11:10	<input type="checkbox"/> Introduction to CDIO Johan Malmqvist , Professor, Product Development, Chalmers University of Technology, Sweden. Co-leader and Co-founder of CDIO
(Members) 10:20~11:10	<input type="checkbox"/> CDIO Members Meeting (Case Study and Discussion) Coordinator: Helene Leong , Director, Department of Educational Development, Singapore Polytechnic. Co-chair of CDIO Asian Region
Project Meeting 11:10~12:00	

REGISTRATION FEE

	Early registration (Credit Card only) On/Before March 14, 2014	On-site registration (Cash only)
Participant	20,000 yen	25,000 yen
Accompanying Family Member (only one per participant)	10,000 yen	10,000 yen

Registration fee includes the following (except accommodation fees): ●Welcome Party (March 23) ●Lunch (March 24, 25) ●Banquet (March 24)
 ●Shuttle bus to/from the Kanazawa Excel Hotel Tokyo (March 24, 25, 26*) *March 26 : Departing from the hotel, morning only

MORE INFORMATION (Access, Accommodation, etc.) ⇒ <http://www.kanazawa-it.ac.jp/cdio/>