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
Welcome Address
9:00 – 9:10
Ken-ichi Ishikawa, President, Kanazawa Institute of Technology, Japan

Keynote Lecture 1
9:10 – 10:00
“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
“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
“The Ideal Engineer: What Industry is Looking For”
Kazuhiko Tsutsuji, Executive Officer, Vice President, Corporate Research and Development, Mitsubishi Electric Corporation, Japan

Plenary Session 1
13:30 – 15:00
“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

“Engineering Education Initiatives at KTC”
Robert Songer, Assistant Professor, Global Information Technology, Kanazawa Technical College

“Effects of Industry-Academia Collaborative Education in KIT Re-Design Apartment Project”
Tomohiro Miyashita, Associate Professor, Architectural Design, Kanazawa Institute of Technology

“Activity of KIT Geospatial Information Project”
Masaaki Shikada, Dean of Major Basic Education, and Professor, Civil and Environmental Engineering, Kanazawa Institute of Technology, Japan

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

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
“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
Ogihigaoka Campus, Bldg. #26 & #41 (Yumekobor: Factory for Dreams and Ideas)

Invited Lecture 1
9:10 – 10:00
“Engineering Education in Japan”
Yoichi Kenmochi, Executive Director, Japanese Society for Education Engineering, Japan

Invited Lecture 2
10:20 – 11:10
“Just for fun” crosses boarders: Unity as a knowledge canal”
Hiromi Omae, Regional Director/Product Evangelist, Unity Technologies Japan

Invited Lecture 3
11:10 – 12:00
“SRI’s Five Disciplines of Innovation -Sustainable Entrepreneurship is Key to a Strong Economy-”
Youssef Igider, Japan Representative Director and Senior Director of Business Development, Stanford Research Institute (SRI) International, Japan

Plenary Session 2
13:30 – 15:00
“Systems Thinking and Engineering-based ‘Global Project Based Learning’”
Hiroshi Hasegawa, Professor, Machinery and Control Systems, Shibaura Institute of Technology, Japan

“Recent Innovations in Engineering Education in Hub Center for Engineering Education of Yeungnam University”
Dong Joo Song, Professor, Mechanical Engineering, Yeungnam University, Korea

“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.)

“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
“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
Yatsukahko Research Campus

Closing Address
17:15 – 17:30
Hirofumi Yamada, President, Kanazawa Technical College, Japan

REGISTRATION FEE

<table>
<thead>
<tr>
<th>REGISTRATION FEE</th>
<th>Early registration (Credit Card only)</th>
<th>On-site registration (Cash only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participant</td>
<td>20,000 yen</td>
<td>25,000 yen</td>
</tr>
<tr>
<td>Accompanying Family Member (only one per participant)</td>
<td>10,000 yen</td>
<td>10,000 yen</td>
</tr>
</tbody>
</table>

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(2))
- March 26: Departing from the hotel, morning only

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