Program

Sunday, 1 July 2012

16:00	**CDIO Council Meeting** - Owen J Wordsworth Room, S Block, Level 12
	Pre-registration – Z-Block, Level 4 Foyer
18:00	**Welcome Reception** – Queensland Maritime Museum – South Bank
20:00	Close

Monday, 2 July 2012

8:30	Room Z411	**Welcome Address**						
9:00		**New Generations: CDIO Contexts**						
9:30		**Morning Tea** – Z Block, Level 4 Foyer						
10:00	Room Z309	**Introductory Workshop**	Room Z302	**Advanced Workshop**	Room Z305	**Advanced Workshop**	Room	**Learning Spaces Tour 1**
		Introduction to CDIO		*Strategies for Lifting an Iceberg - Full Scale Adoption of CDIO*		*Designing Assessment for Learning: From Objectives to Evidence of Learning*		
11:00		**Kristina Edström** **Helene Leong-Wee Kwee Huay** **Ed Crawley**		**Pernille Andersson** **Peter Hussmann** **Morten Høyer**		**Wageeh Boles**		
12:00								
12:30		**Lunch** – Z Block, Level 4 Foyer						
13:30	Room Z309	**Introductory Workshop**	Room Z302	**Advanced Workshop**	Room Z305	**Advanced Workshop**	Room	**Learning Spaces Tour 2**
		Introduction to CDIO (cont.)		*Concept Questions in Engineering: The next step*		*Aligning Accreditation Criteria and Processes with the CDIO Approach*		
14:30				**Göran Gustafsson**		**Doris R. Brodeur, Robin King**		
15:00		**Afternoon Tea** – Z Block, Level 4 Foyer						
15:30	Room Z309	**Introductory Workshop**	Room Z302	**Advanced Workshop**	Room Z305	**Advanced Workshop**		
		Introduction to CDIO (cont.)		*Faculty development for CDIO implementation [Sensitive viewers are warned]*		*Aligning Accreditation Criteria and Processes with the CDIO Approach* (cont.)		
16:30				**Kristina Edström**				
17:00		**Speed Dating** – Old Government House						
18:30		Close						

Tuesday, 3 July 2012

Time	Room				
9:00	**Room Z411**	**Welcome and Announcements**			
9:30		**Keynote Presentation: Global Trends and Challenges in Engineering Education** **Emeritus Professor Robin W King**			
10:30		**Morning Tea** – Z Block, Level 4 Foyer			

Time		**Generational Issues** Chair: Cheryl Desha		**CDIO in Students** Chair: Doris R. Brodeur		**Active Learning** Chair: Kristina Edström		**Design and Implement Experiences** Chair: Lynann Clapham
11:00	Room Z302	TA1 *Engaging a Multiple-Track Approach to Building Capacity for 21st Century Engineering, Opportunities and Challenges for Rapid Curriculum Renewal* **Cheryl Desha**	Room Z303	TB1 *Mentoring Young Adults in the Development of Social Responsibility* **Doris R. Brodeur**	Room Z304	TC1 *Two approaches for Engineering Education Development: PBL and CDIO* **Kristina Edström** **Anette Kolmos**	Room Z305	TD1 *Progress With the Professional Spine: A Four-year Engineering Design and Practice Sequence* **Lynann Clapham**
11:30		TA2 *Integration of Education for Sustainable Development in a Mechanical Engineering Programme* **Mikael Enelund**		TB2 *Ethics Learning Outcome: An Integrated Learning experience* **Héctor Agusto**		TC2 *Making Students Active in Large Classes* **Tien Dinh** **Bac Le**		TD2 *Teaching Project Courses in Large Scale Using Industry-like Methods – Experiences after Ten Years* **Svante Gunnarsson**
11:50		TA3 *Enhance Students' Motivation To Learn Programming - The Developing Process Of Course Design* **Lars Reng**		TB3 *Engineering Ethics Across the Curriculum at Kanazawa Institute of Technology* **Jun Fudano**		TC3 *Project-based Learning with Step-up Method—take CDIO Abilities Cultivation in Computer Specialty for Example* **Dazhi Jiang**		TD3 *Effect of Experimental Utility in CDIO Courses: Comparison of Simulated Software Platform to Synthetic Hardware Toolkit* **Xi Wu** **Mingyuan Xie**
12:10		TA4 *Introducing Personality Tests to Clarify Engineering Student Self-Perception and Demystify Recruitment Procedures* **Siegfried Rouvrais**		TB4 *Designing Learning Experiences for Teaching & Assessing the CDIO Skill Hypothesis Testing* **Aaron Woh Peng Yuen** **Sin-Moh Cheah**		TC4 *Active Learning in First Year Engineering Courses at Universidad Católica de la Santísima Concepción, Chile* **Marcia Muñoz**		TD4 *Implementation CDIO Concept in Bilingual Teaching in Non-English-Speaking Country: a Course studying in Digital Image Processing* **Xi Wu** **Mingyuan Xie**
12:30		**Lunch** – Z Block, Level 4 Foyer						

Tuesday, 3 July 2012

13:30	Room Z309	**Roundtable Discussions**	Room Z303	**Curriculum Program Design**	Room Z304	**Learning Assessment**	Room Z305	**Industry Engagement**
				Chair: Maria Knutsson Wedel		**Chair: Svante Gunnarsson**		**Chair: Ronald Hugo**
		Active Learning and Experimental Learning in CDIO Approach **Phuong Phung**		TE1 *Developing and Implementing a Program Interfacing Project Course in Electrical Engineering* **Joakim Lilliesköld**		TF1 *Self and Peer Rating in Multi-Disciplinary Group Projects* **John Paul Hermon**		TG1 *A Comparison Between Different Approaches to Industrially Supported Projects* **Gareth Thomson**
13:50		*Strategies for Lifting an Iceberg - Full Scale Adoption of CDIO* **Pernille Andersson** **Peter Hussmann** **Morten Høyer**		TE2 *Design of the Advanced Engineering Project Subject for the Third Year of Electrical Engineering at Telecom BCN* **Ramon Bragos**		TF2 *Integrated Learning Experiences in the Machine Design Course to Assess The Achievement of Desired Learning Outcomes* **Nguyen Loc**		TG2 *Preparing Students for Professional Practice through Industry-based Projects* **Rainer Seidel**
14:10		*Finding Suitable Products for First-year Student Projects* **Tatu Westerholm**		TE3 *Pathway of Development in CDIO at Kemi-Torino University of Applied Sciences* **Lauri Kantola** **Soili Mäkimurto-Koivumaa**		TF3 *Faculty Mentoring, Evidence-Based Assessment, and Student Learning: An Australian Exploration of American Initiatives* **Wageeh Boles**		TG3 *Final Project Fair as a Platform to Promote Student Industry Contacts* **Kaj Granath**
14:30		*Learning Environment and Scheduling Challenges in Technical Studies at Savonia UAS* **Jarkko Surakka**		TE4 *Using CDIO to Integrate Global Mindset into Chemical Engineering Curriculum* **Sin Moh Cheah**		TF4 *Assessment of Professional Engineering Skills* **Niclas Andersson** **Pernille Andersson**		TG4 *CDIO Practice in Telecommunication Engineering Program* **Tianbao Wang**
14:50								

15:00	**Poster Teaser** – Room Z303
15:30	**Poster Session, CDIO Academy Project Displays and Judging / Afternoon Tea** O-Block Project Space, Ground floor O-Block
15:45	**Learning Spaces Tour 3**
17:00	Free Time
19:00	**Conference Banquet** - Rooftop, Rydges Hotel, South Bank
22:30	Close

Wednesday, 4 July 2012

9:10	Room Z411	**New Generations Forum** **Cheryl Desha** – Chair, (Gen X) Queensland University of Technology **Loughlin Smith**, (Gen Y) Queensland University of Technology **Felicity Briody**, (Gen Y) Women in Engineering, Engineers Australia **Brendan Williams**, (Gen X) Boeing Research & Technology Australia **David Hood**, (Baby-Boomer) Engineers Australia **Bouchra Senadji**, (Baby-Boomer) Queensland University of Technology

10:30	**Morning Tea** – Z Block, Level 4 Foyer

11:00		**Curriculum/Program Design**		**Facilitating Change**		**Internationalisation and Globalisation**		**Program Evaluation and Accreditation**
		Chair: Birgitte Christiansen		Chair: Rainer Seidel		Chair: Duncan Campbell		Chair: Wageeh Boles
		WA1 *Learning Outcomes: A Process of Formulating Learning Outcomes at Program Level* **Trinh Doan** **Bang Pham**		WB1 *Pedagogical Approach to Integrate Sustainable Development into Engineering Curriculum* **Sin Moh Cheah**		WC1 *The Ethics of Globalization* **Doris R. Brodeur**		WD1 *Approaching CMM to an Educational CDIO based Software Engineering Process* **Daniel Einarson**
11:20	Room Z302	WA2 *Key-factors for a Successful CDIO Implementation in a Danish Context* **Jens Bennedsen** Presented by: **Jørgen Bundgaard Nielsen**	Room Z303	WB2 *A Template for Change? De-risking the Transition to CDIO* **Keith Robinson**	Room Z304	WC2 *Reinforcing Skills and Building Student Confidence through a Multicultural Project-based Learning Experience* **Ronald Hugo**	Room Z305	WD2 *Evaluation of the Industrial Internship for the Diploma IT programme at DTU* **Mads Nyborg**
11:40		WA3 *Engaging Students in Engineering Curriculum Renewal using Threshold Concepts* **Cara MacNish**		WB3 *Program Leadership from a Nordic Perspective - Managing Education Development* **Johan Malmqvist**		WC3 *Hyperion: A Follow-The-Sun Design Experience* **Jean Koster**		WD3 *Using Students´ Reflections on Program Goals after Master´s Thesis as a Tool for Program Evaluation* **Annalena Kindgren** **Ulf Nilsson** **Ingela Wiklund**
12:00		WA4 *Inculcating CDIO Skills at the Pre-Degree Level* **Mushtak Al-Atabi**		WB4 *Resistance to Change in Institutionalizing the CDIO Standards: From a Cascade to an Agile Improvement Model* **Siegfried Rouvrais**		WC4 *Teaching International Students: The Value of Having Experience from Teaching in a Foreign Country* **Lennart Elmquist**		WD4 *A Quality System for Engineering Education* **Fredrik Georgsson**

12:30	**Lunch** – Z Block, Level 4 Foyer

Wednesday, 4 July 2012

		Design Implement Experiences	CDIO Skills in Students	Active Learning	Program Evaluation and Accreditation
		Chair: Paul Herman	Chair: Helene Kwee Leong-Wee	Chair: Les Dawes	Chair: Jean Koster
13:30		WE1 MAV DBF – Experience with PBL Shared Across Multiple Courses **Tom Steiner**	WF1 Formation of Active Attitude for Learning and of Habits of Scientific Thinking by Project Based Team Learning at Kanazawa Institute of Technology **Shigehiko Furuya**	WG1 Bringing Industry into the Classroom: Virtual Learning Environments for a New Generation **Nicoleta Maynard**	WH1 Benchmarking of TPU Academic Standard and CDIO Standards in Engineering Education **Tatyana Petrovskaya** **Fedor Simankin** **Marina Samborskaya**
13:50	Room Z302	WE3 Experiences from Design-Build-Test projects in Lighting Design **Göran Hellborg**	WF2 Group Dynamics – An Integrated Part of Engineering Projects **Johan Bankel** **Lennart Persson**	WG2 Teaching Mathematics for Civil Engineering Students Applying Experiments **Jens Peder Ulfkjaer**	WH2 A Modelling Framework for Curriculum Assessment for Professional Accreditation **Jocelyn Armarego**
14:10		WE4 Quantitative Indicators for Assessing the Effectiveness of Project-Based Learning Experiences **Ronald Hugo**	WF3 Industrial Involvement in Teaching Activities in Engineering Education **Claes Hansson** **Anette Hallin**	WG3 Facing Disaster - Learning by doing at Reykjavik University **Ingunn Saemundsdottir**	WH3 CDIO@ISEP: "A Stairway To Heaven" **Antonio Costa**
14:30			WF4 An Online Writing Centre for Engineering students **Pamela Mort**	WG4 Bridging the Gap between Theory and Praxis in Engineering Education **Aage Birkkjær Lauritsen**	WH4 RAEE Accreditation Criteria and CDIO Syllabus: Comparative Analysis **Alexander I. Chuchalin** Presented by: **Tatyana Petrovskaya** **Fedor Simankin**
14:50					
15:00		**Afternoon Tea** – Z Block, Level 4 Foyer			
15:30	Room Z303	**Closing Ceremony** Awards CDIO CUP CDIO Conference 2013			
16:30		Conference Close			

Room Z303 (WF column) · Room Z304 (WG column) · Room 305 (WH column)

Thursday, 5 July 2012

Time	Event
7:45	**CDIO Collaborators Meeting & CDIO Council** - Owen J Wordsworth Room, S Block, Level 12
	Arrival Tea, Coffee & Light Refreshments
8:15	Plenary session
9:00	Parallel sessions: A view on CDIO in the *Asia regions* • Dalian Neusoft IT College (China) • Beijing Petro-chemical College (China) • Suzhou Industrial Park Institute of Vocational Technology (IVT) (China) • Duy Tan University (Vietnam) *AZ and Americas regions* • Royal Melbourne Institute of Technology • Curtin University • University of Western Australia *Europe & UK-Ire regions* • Novia UAS, Finland • Astrakan State University (Russia)
10:30	**Coffee break**
10:45	Plenary session: • Future organization of the CDIO Initiative. Introduction to regional group discussion
11:00	Parallel sessions • Regional meetings: UK-IRE, NA, SA, ANZ, Europe, Asia/China • Discussion of future organization of the CDIO • Planning for regional meetings and collaboration
12:30	**Lunch**
13:15	Plenary session: Report back from regional discussions
14:00	Meeting summary, wrap-up
14:15	Council, program and theme leaders meeting • Wrap-up of work started at meeting • Planning detailed design and implementation of future organization of the CDIO Initiative • New collaborator applications (listed above + Linneaus, Skövde) • Regional meetings & issues • Plan for Fall 2012 meeting • Locations of future meetings • Telecons June-Oct
16:00	Collaborators Meeting Close