

## TOPICAL SESSION SCHEDULE

www.cdio.fi



Updated 13.6.2016

PIP = CDIO Project in Progress

## Monday 13.6.2016 9.00-10.30 / KEYNOTE SESSION

## Vesa Taatila &amp; Mark Somerville

Room *Alpha*Chair *Juha Kontio*

## Monday 13.6.2016 10.30-11.05 / POSTER TEASER SESSION

See the Posters to be presented from the next page (Poster Session M2). The Poster Teaser presentations will take place in submission ID order (smallest number first).

Room *Alpha*Chair *Rick Sellens*

## Monday 13.6.2016 11.20-12.30 / PARALLEL SESSION M1

Session	Introduction to CDIO	Engineering Education Research 1	CDIO Implementation & PiPs CDIO Implementation Cases 1	CDIO Implementation & PiPs Curriculum Design 1	CDIO Implementation & PiPs Entrepr., Bus. and Innovation 1	CDIO Implementation & PiPs Innovation Pedagogy	Workshop (Enrollment list by the Front Desk)
Room	<i>Alpha</i>	<i>Delta</i>	<i>My</i>	<i>Omega</i>	<i>Sigma</i>	<i>C1031 - Demo Classroom (1st floor)</i>	<i>C1032 - Demo Classroom (1st floor)</i>
Chair	<i>Johan Malmqvist &amp; Kristina Edström</i>	<i>Aldert Kamp</i>	<i>Svante Gunnarsson</i>	<i>Suzanne Hallenga-Brink</i>	<i>Ramon Bragos</i>	<i>Mika Luimula</i>	<i>Mevea - Simulation Solutions</i>
	<b>CDIO Introductory 1</b>	<b>Paper 68</b>	<b>Paper 24</b>	<b>Paper 52</b>	<b>Paper 50</b>	<b>Paper 115</b>	<b>Sponsor Workshop</b>
	<b>CDIO Essentials - Part 1</b> <i>by Johan Malmqvist &amp; Kristina Edström</i>	<b>Teaching-Research nexus in Engineering Education</b> <i>Marie Magnell, Johan Söderlind and Lars Geschwind</i>	<b>The Implementation of the CDIO Initiative in CUIT</b> <i>Luqiao Zhang, Juan Wang, Fei Li and Lei Shi</i>	<b>Experiences in Integrating Ethics for Engineers in MSc Programmes</b> <i>Ulrika Lundqvist</i>	<b>Adopting CDIO to Integrate Engineering with Business</b> <i>Weng Yew Wong, Safura Anwar and Shanker Maniam</i>	<b>EduScrum – The Empowerment of Students in Engineering Education?</b> <i>Eduarda Pinto Ferreira and Angelo Martins</i>	<b>Use of Simulators and Virtual Prototypes in Engineering Education</b>  Max. number of participants: 30
			<b>Paper 145</b>	<b>Paper 49</b>	<b>Paper 221</b>	<b>Paper 89</b>	
			<b>Cultivation of Innovative Ability in Multilevel CDIO Workshops</b> <i>Ke Cheng, Min Fan, Feng Chen, Jijun Zhou and Min Chen</i>	<b>CDIO as a Blueprint for Community Service Engineering Education</b> <i>Suzanne Hallenga-Brink and Jan Dekelver</i>	<b>Cross Domain Software Based Innovation Enhancement by Merging Education and Industry in a Single Spectrum</b> <i>Gandhi Karuna K.T., Koteswara Rao Anne, Sarasu P and Abudhahir A</i>	<b>How to Culture Innovation Competency in Network Principle Course</b> <i>Hong Wang, Yingpeng Yang and Wei Sun</i>	
		<b>Paper 199</b>					
		<b>Impact of Global Forces and Empowering Situations on Engineering Education in 2030</b> <i>Aldert Kamp and Renate Klaassen</i>	<b>Paper 208</b>		<b>Paper 121</b>	<b>Paper 8</b>	
			<b>Introduction of the CDIO Framework at the Military Institute of Engineering in Brazil</b> <i>Jorge Cerqueira, André Rezende, Waldemar Barroso Magno and Svante Gunnarsson</i>		<b>Mixing Design, Management and Engineering Students in Challenge-based Projects</b> <i>Lotta Hassi, Juan Ramos-Castro, Luciana Leveratto, Joona Juhani Kurikka, Guido Charosky, Tuuli Maria Utriainen, Ramon Bragos and Markus Nordberg</i>	<b>Innovation Generation Model - From Innovation Projects towards RDI Project Consortiums and Business Ecosystems</b> <i>Mika Luimula, Taisto Suominen, Janne Roslöf, Sakari Pieskä and Ari Lehtiniemi</i>	

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## Monday 13.6.2016 13.00-14.00 / POSTER SESSION M2

Room	Main lobby						
Chair	Rick Sellens						
	<b>Paper 13</b>	<b>Paper 51</b>	<b>Paper 60</b>	<b>Paper 73</b>	<b>Paper 78</b>	<b>Paper 114</b>	<b>Paper 117</b>
	<b>A Case Study on CDIO Implementation at University of Information Technology - Viet Nam National University, Viet Nam</b>	<b>Transition from Outcome Based Education to CDIO Based Education</b>	<b>Evolution of Electronic Examination at Turku University of Applied Sciences</b>	<b>Devising an Electric Power System: A CDIO Approach Applied to Electrical Engineering</b>	<b>Towards Developing a Communication Training Module for Customer-based Projects</b>	<b>Developing Self-assessment Rubrics in Design Thinking based Activity: The Learning Express SP-RMUTT</b>	<b>Pedagogical Patterns as a Facilitator for Change</b>
	<i>Vu Thanh Nguyen, Trinh Quoc Son and Phan Trung Hieu</i>	<i>K. Kalidasa Murugavel</i>	<i>Matti Kuikka</i>	<i>Rosa M. de Castro, Jaime Rodríguez, Luis Beites, Francisco Blázquez, Araceli Hernández, Mohamed Izzeddine, Marcos Lafoz, Sergio Martínez, Carlos A. Platero, Dionisio Benítez, Carlos Vergara and</i>	<i>Kalliopi Skarli</i>	<i>Piyanut Jingjit, Natha Kuptasthien and Chih Wee Siow</i>	<i>Angelo Martins, Eduarda Pinto Ferreira and António Costa</i>
	<b>Paper 139</b>	<b>Paper 157</b>	<b>Paper 167</b>	<b>Paper 176</b>	<b>Paper 202</b>	<b>Paper 216</b>	<b>Paper 219</b>
	<b>Implementing a 15 kW Electric Solar Power System as a Student Project</b>	<b>Steps for Iterating Design-Implement Experiences into a CDIO Course</b>	<b>Design-build Experiences – ICU GAME Capstone Project</b>	<b>Excellence in Action – A Case Study about Project Module in Engineering Studies</b>	<b>Enhancing Attainment of Learning Outcomes through Active Learning</b>	<b>The Umbrella Course Teaching Method</b>	<b>Create Driving Force in your Teaching through Work-related Activities</b>
	<i>Teijo Lahtinen and Jussi Kuusela</i>	<i>Sergi Bermejo, Miguel Ángel García-González, Ramon Bragós, Núria Montesinos and Montserrat Ballarín</i>	<i>Elina Kontio and Riitta-Liisa Lakanmaa</i>	<i>Sakari Koivunen</i>	<i>A. Abudhahir, K.V.D. Kishore Kumar, P. Sarasu and K.R. Anne</i>	<i>Lisbeth Lindbo Larsen and Thomas Winther</i>	<i>Sara Nyberg and Ulrika Edlund</i>
	<b>Paper 223</b>	<b>Paper 225</b>	<b>Paper 228</b>	<b>Paper 238</b>			
	<b>Enhancing Students Critical Thinking for Resource Management through Feedback</b>	<b>Improving Written Communication Skills in Engineering Programs</b>	<b>Risks of Incorrect Pass-fail Decisions Associated with Assessment Uncertainty</b>	<b>Visualization in Learning and Teaching of Electric Power Distribution Systems</b>			
	<i>Roland Gårdhagen and Hossein Nadali Najafabadi</i>	<i>Magnus Andersson, Hossein Nadali Najafabadi and Joakim Wren</i>	<i>Wojciech Toczek</i>	<i>Juhani Rouvali, Jarkko Lehtonen and Pasi Puttonen</i>			

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Monday 13.6.2016 14.10-15.20 / PARALLEL SESSION M3							
Session	Introduction to CDIO	Advances in CDIO 1 - Quality Assurance Special Session	CDIO Implementation & PiPs Faculty Development 1	CDIO Implementation & PiPs Curriculum Design 2	CDIO Implementation & PiPs Entrepr., Bus. and Innovation 1	CDIO Implementation & PiPs CDIO Implementation Cases 2	Workshop (Enrollment list by the Front Desk)
Room	Alpha	Delta	Mu	Omega	Sigma	C1032 - Demo Classroom (1st floor)	C3044 - Team Classroom (3rd floor)
Chair	Johan Malmqvist & Kristina Edström	Juha Kontio	Helene Leong	Helena Isaksson	Mika Jokinen	Anastasia Kriushova	Birgitte Lund Christiansen
	<b>CDIO Introductory 1</b>	<b>Papers 158, 19, 142, 173, 191</b>	<b>Paper 77</b>	<b>Paper 165</b>	<b>Paper 46</b>	<b>Paper 87</b>	<b>Paper 215</b>
	<b>CDIO Essentials - Part 2</b> <i>by Johan Malmqvist &amp; Kristina Edström</i>	Enhancing Quality Together with the CDIO Community <i>Juha Kontio</i>  Experiences on Collaborative Quality Enhancement using Cross-sparring between two Universities <i>Robin Clark, Elna Kontio, Janne Roslöf, Paula Steinby and Gareth Thomson</i>	The Pedagogical Developers Initiative - Development, Implementation, and Lessons Learned from a Systematic Approach to Faculty Development  <i>Anders Berglund, Hans Havtun, Anna Jerbrant, Lasse Wingård, Magnus Andersson, Björn Hedin, Juliette Søgaard and Pär Källgren</i>	Application of CDIO Approach to Engineering BEng, MSc and PhD Programs Design and Implementation  <i>Alexander Chuchalin, Natalia Daneikina and Clément Fortin</i>	Adaptation of the CDIO-framework in Management Courses for Engineering Students - a Micro-level Approach  <i>Dzamiła Bienkowska, Charlotte Norrman and Per Frankelius</i>	An Implementation of CDIO Educational Concept in Undergraduate Engineering Practice <b>CANCELED</b> <i>Yuanhuan Huang, Juan Wang, Luqiao Zhang, Shibin Zhang and Fei Li</i>	Teaching Philosophy Game - a Way to Clarify Values, Attitudes, and Preferences Related to Teaching  <i>Birgitte Lund Christiansen, Claus Thorp Hansen and Lars Bogø Jensen</i>
	Using Self-Evaluations for Collaborative Quality Enhancement - A Case Study <i>Jens Bennedsen and Katriina Schrey-Niemenmaa</i>	Using Self-Evaluations for Collaborative Quality Enhancement - A Case Study <i>Jens Bennedsen and Katriina Schrey-Niemenmaa</i>	Cross-continental Engineering Faculty Development in Higher Education  <i>Anna-Karin Högfeldt and Margareta Bergman</i>	Developing an Online Professional Development Curriculum for Students on Internship  <i>Robyn Paul, Arin Sen and Bill Rosehart</i>	Exploration and Practice of Innovative and Entrepreneurial Talent Cultivation  <i>Tao Wen, Quang Guo, Yingqiu Li and Changning Ren</i>	Applying the CDIO Framework for Programme Modernization: TPU Example <b>CANCELED</b> <i>Anastasia Kriushova, Marina Tayurskaya, Oleo Benson and Yuri Daneykin</i>	Max. number of participants: 24
	A Preliminary Case Study for Collaborative Quality Enhancement <i>Charles McCartan, Paul Hermon, Fredrik Georgsson, Henrik Björklund and Jonny Pettersson</i>	A Preliminary Case Study for Collaborative Quality Enhancement <i>Charles McCartan, Paul Hermon, Fredrik Georgsson, Henrik Björklund and Jonny Pettersson</i>	<b>Paper 213</b>	<b>Paper 188</b>	<b>Paper 94</b>	<b>Paper 214</b>	
	Pairwise Collaborative Quality Enhancement: Experience of Two Engineering Programmes in Iceland and France <i>Siegfried Rouvrais, Haraldur Audunsson, Ingunn Sæmundsdóttir, Gabrielle Landrac and Claire Lassudrie</i>	Pairwise Collaborative Quality Enhancement: Experience of Two Engineering Programmes in Iceland and France <i>Siegfried Rouvrais, Haraldur Audunsson, Ingunn Sæmundsdóttir, Gabrielle Landrac and Claire Lassudrie</i>	<b>Paper 153</b>	<b>Paper 118</b>	<b>Paper 137</b>		
			Enhancing Teaching Skills: A Professional Development Framework for Lecturers  <i>Helene Leong, Mark Nivan Singh and Dennis Sale</i>	CDIO Implementation in Swedish Upper Secondary Education  <i>Helena Isaksson Persson and Lena Gumaelius</i>	Learning Nanotechnology, Business and Communication by Envisioning Future Products  <i>Mika Jokinen, Sari Loppela-Rauha and Monica Tamminen</i>		

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Monday 13.6.2016 15.30-16.40 / PARALLEL SESSION M4							
Session	Engineering Education Research 2	CDIO Implementation & PiPs Course Design and Develop. 1	CDIO Implementation & PiPs Teamwork and Student Motivation	CDIO Implementation & PiPs Entrepr., Bus. and Innovation 3	CDIO Implementation & PiPs Faculty Development 2	CDIO Implementation & PiPs Learning Assessment 1	Workshop (Enrollment list by the Front Desk)
Room	Alpha	Delta	Mu	Omega	Sigma	C1032 - Demo Classroom (1st floor)	C1031 - Demo Classroom (1st floor)
Chair	Robyn Paul	Christian W Probst	Eduarda Pinto Ferreira	Antti Piironen	Daniel Einarson	Joseph Timothy Foley	Frida Woldhek
	<b>Paper 72</b>	<b>Paper 29</b>	<b>Paper 147</b>	<b>Paper 138</b>	<b>Paper 103</b>	<b>Paper 54</b>	<b>Paper 106</b>
	<b>A Framework for Language and Communication in the CDIO Syllabus</b>	<b>Design and Innovation of Physics Experiment Based on CDIO Model</b>	<b>Enhancing Students' Self-directed Learning and Motivation</b>	<b>Integrating Business Skills in Engineering Education: Enhancing Learning Using a CDIO Approach</b>	<b>Implementing CDIO in Twelve Programs Simultaneously: Change Management</b>	<b>Validity Assessment of the P-B-P Model across Various Engineering Disciplines for Better Team Learning Results</b>	<b>LEGO Serious Play Meets CDIO</b>
	Jamie Rinder, Teresa Sweeney, Geslin and David Tual	Jijun Zhou, Xiaolin Zheng, Lei He, Jianan Sheng, Xiuying Gao and Min Chen	Helene Leong, Ang Jin Shaun and Mark Nivan Singh	Thomas Mejtoft	Suzanne Hallenga-Brink and Oda Kok	Dong T Tran, Binh D Ha and Bao N Le	Frida Woldhek Max. number of participants: 24
		<b>Paper 82</b>	<b>Paper 69</b>	<b>Paper 194</b>	<b>Paper 156</b>	<b>Paper 135</b>	
		<b>Directed Student Engagement and Learning in a Large Engineering Unit</b>	<b>Industry-Inspired Experiential Learning and Assessment of Teamwork</b>	<b>Enhancing the RDI Competence of Master's Students through Diversity Management Interventions</b>	<b>Interdisciplinary Faculty Learning Communities in Engineering Programs: The UCSC Experience</b>	<b>CDIO Implementation Experience for the Masters Training at SUAI</b>	
		Douglas Hargreaves	Flex Tio	James Collins, Erja Turunen and Antti Piironen	Solange Loyer, Marcia Muñoz, Hernán Silva, Marco Gómez, Manuel Loyola and Felipe González	Julia Antokhina, Valentin Olenev and Yuriy Sheynin	
	<b>Paper 186</b>	<b>Paper 105</b>	<b>Paper 58</b>		<b>Paper 230</b>	<b>Paper 83</b>	
	<b>Teaching and Learning Activities Leading to Engineering Graduate Attribute Development</b>	<b>Adding CDIO-Components to (Non-)CDIO Courses</b>	<b>Integrating CDIO Skills by Teamwork in a School of Engineering - ISEP</b>		<b>Case-study: Self-evaluation of Educational Programs and an Academic Learning Organization</b>	<b>Evaluating Engineering Notebooks</b>	
	Robyn Paul, Stephanie Hladik and Ron Hugo	Christian W Probst	Florinda Martins and Eduarda Pinto Ferreira		Diana Saplacan, Daniel Einarson and Pekka Silvén	Joseph Timothy Foley	

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**Tuesday 14.6.2016 9.00-9.45 / KEYNOTE SESSION**

<b>Riitta Rissanen</b>	
Room	Alpha
Chair	Liisa Kairisto-Mertanen

**Tuesday 13.6.2016 9.45-10.30 / POSTER TEASER SESSION**

See the Posters to be presented from the next page (Poster Session T2). The Poster Teaser presentations will take place in submission ID order (smallest number first).	
Room	Alpha
Chair	Rick Sellens

**Tuesday 14.6.2016 10.40-11.50 / PARALLEL SESSION T1**

Session	Introduction to CDIO	Engineering Education Research 3	CDIO Implementation & PiPs Course Design and Develop. 2	CDIO Implementation & PiPs Curriculum Design 3	CDIO Implementation & PiPs Learning Assessment 2	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Alpha	Delta	Mu	Omega	Sigma	C1032 - Demo Classroom (1st floor)	B1038 - Computer Classroom (1st floor)
Chair	Ron Hugo & Sylvaine Turenne	Dave Wackerlin	Kjell Staffans Jerker Björkqvist	Peter Hallberg	Matts Karlsson	Kristina Edström	MathWorks Inc.
	<b>CDIO Introductory 2</b>	<b>Paper 14</b>	<b>Paper 56</b>	<b>Paper 129</b>	<b>Paper 55</b>	<b>Paper 162</b>	<b>Sponsor Workshop</b>
	<b>Workshop on Design-Implement Exercises and Workspaces</b>  by Ron Hugo & Sylvaine Turenne	<b>Analyzing the Meaning of Interdisciplinary in the CDIO Context</b>  Mirka Kans and Åsa Gustafsson	<b>Using Facebook as a Supplementary Communication Channel for Active Learning</b>  Vu T Truong, Thuan T Nguyen and Bao N Le	<b>Investigation of the Geosocial Obstacles in the Curriculum Development of Civil Engineering Programs in Vietnam</b>  Duong T Nguyen, Duc V Tran, Chau M Duong and Thang C Nguyen	<b>Capstone Problem Design for Optimal Learning Curve in Architecture Design</b>  Hieu X Luong and Bao N Le	<b>Adapting CDIO to Civil Engineering: Investigate - Plan - Design - Construct - Operate and Maintain</b>  Martin Nilsson, Catrin Edelbro and Kristina Edström	<b>MathWorks - Simulink and Raspberry Pi Workshop</b>  Max. number of participants: TBA
		<b>Paper 30</b>	<b>Paper 160</b>	<b>Paper 172</b>		Max. number of participants: 30	
		<b>"Engineering Design" Course Transformation: From a Conceive-Design towards a Complete CDIO Approach</b>	<b>CDIO Framework Implementation in Business Computer Program</b>	<b>Learning Assessment – a Palette of Methods in a Master's Program</b>			
		<b>Paper 57</b>	<b>Paper 182</b>	<b>Paper 161</b>			
		<b>CDIO as a Cross-Discipline Academic Model</b>  Dave Wackerlin and Jordan Martin	<b>Teaching and Learning Considerations for a Research-intensive University: Implementing Active Learning</b> <b>CANCELED</b> Kjell Staffans	<b>CEP - CDIO Enabling Platform as a Catalyst for Course Integration</b>  Peter Hallberg	<b>Assessment in a Learning-Centered Course Design Framework</b>  Hossein Nadali Najafabadi, Magnus Andersson and Matts Karlsson		

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## Tuesday 14.6.2016 12.30-13.30 / POSTER SESSION T2

Room	Main lobby						
Chair	Rick Sellens						
	<b>Paper 38</b> <b>Design and Practice of Preliminary Class for A<sup>3</sup> Learning System</b> <i>Nahomi Fujiki, Yoshihiro Hayakawa, Shinji Chiba, Yasuhiro Kashiwaba, Akiko Takahashi, Hideyuki Kobayashi and Tetsu Suzuki</i>	<b>Paper 51</b> <b>Transition from Outcome Based Education to CDIO Based Education</b> <i>K. Kalidasa Murugavel</i>	<b>Paper 59</b> <b>Assessment Method of the Competencies of Industrial Engineering in an Interdisciplinary Project</b> <i>Lucio Veraldo JR, Messias Silva, José Lourenco JR, Carlos Herculano, Epaminondas Soares JR, Henrique Sampaio and Jorge Rosa</i>	<b>Paper 67</b> <b>What is innovation in Innovation Project?</b> <i>Riikka Kulmala</i>	<b>Paper 74</b> <b>Working Day Model for Students in Chemical and Materials Engineering</b> <i>Anne Norström and Taina Hovinen</i>	<b>Paper 84</b> <b>CDIO-Based Curriculum Design and Evaluation—A Case Study of Feng-Chia University</b> <i>Bor-Tyng Wang, Ching-Yi Lee, Chuang-Chien Chiu, Chun-Wen Teng, Pei-Chun Hsieh and Hsin-Hui Wu</i>	<b>Paper 124</b> <b>Embedding CDIO Approach for Freshman Project at Feng Chia University in Taiwan</b> <i>Ching-Yi Lee, Bor-Tyng Wang, Bing-Jean Lee, Jerry J Wu, Chun-Wen Teng and Yu-Hui Chang</i>
	<b>Paper 150</b> <b>Developing Personal and Interpersonal Skills: The Case of UCN</b> <i>Carolina Rojas, Marcela Ziede, María Hilda Flores and Ruth Segovia</i>	<b>Paper 166</b> <b>Interdisciplinary Entrepreneurship Education at Turku University of Applied Sciences</b> <i>Jaana Kallio-Gerlander and Sari Asteljoki</i>	<b>Paper 179</b> <b>Developing Leadership Skills through the Development of Self-knowledge and Self-awareness</b> <i>Hernán Silva, Marco Gómez and Solange Loyer</i>	<b>Paper 184</b> <b>Concrete Mix Design Competition: Implementing CDIO in Civil Engineering</b> <i>Lynne Cowe Falls, Terry Quinn and Robert Day</i>	<b>Paper 203</b> <b>CDIO Implementation Experiences at VTU – Chennai</b> <i>K.R. Anne, R. Mahalakshmi, P. Sarasu and A. Abudhahir</i>	<b>Paper 218</b> <b>First Year Engineering Students' Perceptions of Professional Skills Development</b> <i>Nicoleta Maynard and Dawn Bennett</i>	<b>Paper 219</b> <b>Create Driving Force in your Teaching through Work-related Activities</b> <i>Sara Nyberg and Ulrika Edlund</i>
	<b>Paper 222</b> <b>Electronics Workshop - an Activating Learning Environment for Students of Diverse Backgrounds</b> <i>Mauri Suhonen, Timo Tolmunen, Jussi Hurri and Lassi Junnila</i>	<b>Paper 224</b> <b>Case: Introduction to CDIO, First-year Chemical Engineering Studies</b> <i>Hanna Hänninen, Taina Hovinen and Sari Loppela-Rauha</i>	<b>Paper 226</b> <b>Engineering Program Development Using Business Modelling and CDIO as Enablers</b> <i>Mirka Kans</i>	<b>Paper 231</b> <b>Using a Quadrocopter as the Driving Force to Prepare Thesis</b> <i>Bengt Molin</i>	<b>Paper 232</b> <b>Short Lecture Demonstrations Improving Student Motivation and Learning</b> <i>Ingrid Andersson, Johan Hedbrant and Joakim Wren</i>	<b>Paper 235</b> <b>Students' Role in Alea Math Game Project</b> <i>Hazem Al-bermaneï, Mika Luimula and Anu Tuominen</i>	<b>Paper 236</b> <b>Integrated Learning through an Intensive Course on User Experience</b> <i>Markku Karhu, Kaisa Väänänen and Yue Fu</i>
	<b>Paper 237</b> <b>Understanding the Effects of Math and Programming Self-efficacy</b> <i>William Lucas, D. Wallace, M.A. Balah, M. Abu-Sbeih and N. Al-Shayea</i>						

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<b>Tuesday 14.6.2016 13.40-14.50 / PARALLEL SESSION T3</b>							
Session	Introduction to CDIO	Engineering Education Research 4	CDIO Implementation & PiPs <i>Introduction to Engineering 1</i>	CDIO Implementation & PiPs <i>Flipped Classroom</i>	Workshop <i>(Enrollment list by the Front Desk)</i>	Workshop <i>(Enrollment list by the Front Desk)</i>	(spare)
Room	C3044 - Team Classroom (3rd floor)	Delta	Mu	Omega	C1032 - Demo Classroom (1st floor)	C1031 - Demo Classroom (1st floor)	-
Chair	Matt Murphy & Juha Kontio	Patric Wallin	Sin Moh Cheah	Lisa Gomer	Patric Granholm	Rick Sellens	
	<b>CDIO Introductory 3</b>	<b>Paper 128</b>	<b>Paper 11</b>	<b>Paper 148</b>	<b>Paper 113</b>	<b>Paper 209</b>	-
	<b>Workshop on Active Learning</b> <i>by Matt Murphy &amp; Juha Kontio</i>	<b>An Evidence-based Approach to Assessing and Developing Teamwork Skills</b>  <i>Nicole Larson, Thomas O'Neill, Genevieve Hoffart, Marjan Eggermont, William Roseheart and Julia Smith</i>	<b>Implementation of CDIO Standards within a Modular Curriculum of Metallurgy Programme</b>  <i>Svetlana Osipova, Tatyana Stepanova and Olga Shubkina</i>	<b>Learning by Teaching: Student Developed Material for Self-directed Studies</b>  <i>Jörg Schminder, Hossein Nadali Najafabadi and Roland Gårdhagen</i>	<b>Mobile Phone Physics Laboratory</b>  <i>Patric Granholm</i>  Max. number of participants: 30	<b>Instructional Video on a Shoestring, or More</b>  <i>Rick Sellens and Ronald Hugo</i>  Max. number of participants: 30	
		<b>Paper 155</b>	<b>Paper 212</b>	<b>Paper 189</b>			
		<b>Reflective Diaries – A Tool for Promoting and Probing Student Learning</b>  <i>Patric Wallin, Tom Adawi and Julie Gold</i>	<b>On the Evolution of a Design-Build Introductory Course in ICT Education: Product Development</b>  <i>Paula Steinby and Timo Tolmunen</i>	<b>Studios and Sustainability: A Creative CDIO Approach to Computer Engineering Education</b>  <i>Emily Marasco, Mohammad Moshirpour, Laleh Behjat and William Rosehart</i>			
			<b>Paper 21</b>	<b>Paper 200</b>			
			<b>Integrating Awareness of Career Prospects into Year-1 Chemical Engineering Curriculum</b>  <i>Sin Moh Cheah</i>	<b>Flipped Math, Lessons Learned from a Pilot at Mechanical Engineering</b>  <i>Lisa Gommer, Eduardo Hermesen and Gerrit Zwier</i>			

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Tuesday 14.6.2016 15.00-16.10 / PARALLEL SESSION T4							
Session	Advances in CDIO 2	Engineering Education Research 5	CDIO Implementation & PiPs <i>Design-Implement Experiences 1</i>	CDIO Implementation & PiPs <i>Introduction to Engineering 2</i>	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)	(spare)
Room	Delta	Mu	Omega	Sigma	C1031 - Demo Classroom (1st floor)	C1032 - Demo Classroom (1st floor)	-
Chair	Helene Leong	Juha Kontio	Charles McCartan	Ásrún Matthíasdóttir	Natalie Lloyd	Lauren Jatana	
	<b>Paper 61</b>	<b>Paper 127</b>	<b>Paper 141</b>	<b>Paper 122</b>	<b>Paper 234</b>	<b>Paper 131</b>	-
	<b>Global Distributed Engineering Student Design Teams: Effectiveness and Lessons Learned</b>	<b>Student Perspectives on Flipped Classrooms in Engineering Education</b>	<b>Designing a Comprehensive Methodology to Integrate Sustainability Issues in CDIO Projects</b>	<b>Integrating and Innovating Methodologically an Introductory Engineering Course: Using Service Learning</b>	<b>Global Entrepreneurial Engineers - The Role of CDIO</b>	<b>A Message Encrypted in a 3D-Printed Snowflake</b>	
	Mikael Enelund, Jason Moore, Monica Ringvik and Martin Trethewey	Mikael Cronhjort and Maria Weurlander	Rafael Miñano-Rubio, Ana Moreno-Romero, Julio Lumbreras, Ángel Uruburu, Ruth Carrasco-Gallego and Rafael Borge	Solange Loyer, Manuel Loyola, Hernán Silva, Marco Gómez, Karla Contreras and Felipe González	Natalie Lloyd and Esther Matemba	Lauren Jatana and Marjan Eggemont	
					Max. number of participants: 30	Max. number of participants: 30	
	<b>Paper 111</b>		<b>Paper 171</b>	<b>Paper 164</b>			
	<b>The Innovation Element of the Diploma (B.Eng.) Programs at DTU</b>		<b>Use of Conceive-Design Learning Environments to Prepare Engineers for the Development of Complex and Highly Integrated Aeronautical Systems</b>	<b>Developing the Integrated Curriculum in Introduction to Engineering Course</b>			
	Mads Nyborg and Nynne Budtz Christiansen		Paulo Lourencao, Fernando Rosa and Otto Resende	Erdenekhuu Norinpel, Khishigjargal Gonchigsuulaa, Uranchimeg Tungalag, Erdenetuya Dorj and Uuganbayar Purevdorj			
		<b>Paper 9</b>					
		<b>Integrating Innovation Pedagogy and CDIO Approach – towards Better Engineering Education</b>					
		Taru Penttilä and Juha Kontio					
	<b>Paper 76</b>		<b>Paper 109</b>	<b>Paper 120</b>			
	<b>Application of CDIO in Non-Engineering Programmes – Motives, Implementation and Experiences</b>		<b>Creating New Design-Build-Test Experiences as Outputs of Undergraduate Design-Build-Test Projects</b>	<b>Focusing on Creativity: Faculty Motivation in Teaching Brainstorming and Creativity in an Introductory Course</b>			
	Johan Malmqvist, Helene Leong-Wee Kwee Huay, Juha Kontio and Trinh Doan Thi Minh		John Paul Hermon	Ásrún Matthíasdóttir, Ingunn Sæmundsdóttir, Haraldur Auðunsson and Hera Grímsdóttir			



## TOPICAL SESSION SCHEDULE

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**Wednesday 15.6.2016 9.00-10.30 / KEYNOTE SESSION****Ruyta Kawashima & Benedict Cheong**Room *Alpha*Chair *Juha Kontio***Wednesday 15.6.2016 10.40-11.50 / PARALLEL SESSION W1**

Session	Introduction to CDIO	Advances in CDIO 3	CDIO Implementation & PiPs <i>Design-implement Experiences 2</i>	CDIO Implementation & PiPs <i>Stakeholder Collaboration</i>	Workshop <i>(Enrollment list by the Front Desk)</i>	Workshop <i>(Enrollment list by the Front Desk)</i>	(spare)
Room	<i>Sigma</i>	<i>Delta</i>	<i>Mu</i>	<i>Omega</i>	<i>C1032 - Demo Classroom (1st floor)</i>	<i>C3044 - Team Classroom (3rd floor)</i>	-
Chair	<i>Jens Bennedsen &amp; Fredrik Georgsson</i>	<i>Douglas Hargreaves</i>	<i>Cleginaldo Carvalho</i>	<i>Mirka Kans</i>	<i>Oskar Gedda</i>	<i>Genevieve Hoffart</i>	
	<b>CDIO Introductory 4</b>	<b>Paper 18</b>	<b>Paper 10</b>	<b>Paper 12</b>	<b>Paper 28</b>	<b>Paper 205</b>	-
	<b>Workshop on Continuous Improvement with Self-evaluation and Cross-sparring - Part 1</b>	<b>Flipping a Chemical Engineering Module Using an Evidence-based Teaching Approach</b>	<b>IO (Implement and Operate) First in an Automatic Control Context</b>	<b>New Role of Employer in the Educational Process of Metallurgy Programme</b>	<b>Waves of Reform - Analysing a History of Educational Development Concepts</b>	<b>Enhancing Teamwork Skills: Empirical Evidence for Training Program and Demo</b>	
	<i>by Jens Bennedsen &amp; Fredrik Georgsson</i>	<i>Sin Moh Cheah, Dennis Sale and Hui Bee Lee</i>	<i>Svante Gunnarsson, Ylva Jung, Clas Veibäck and Torkel Glad</i>	<i>Natalya Marchenko, Svetlana Osipova and Alexander Arnavtov</i>	<i>Oskar Gedda, Åsa Wikberg Nilsson, Rickard Garvare and Kristina Edström</i>	<i>Genevieve Hoffart, Thomas O'Neill, Nicole Larson, Marjan Eggermont and William Rosehart</i>	
	<i>(Participation in Part 1 is required if you want to join Part 2)</i>	<b>Paper 41</b>	<b>Paper 66</b>	<b>Paper 227</b>	Max. number of participants: 30	Max. number of participants: 30	
		<b>Assessment and Analysis of Engineering Practical Abilities Learning Outcomes of Undergraduates through University-Enterprise Cooperation</b>	<b>Active Learning through 3D Printing Technology and Prototyping</b>	<b>CDIO – A Convergence Point for Academia and Companies</b>			
		<i>Nengsheng Bao, Yueyun Chen and Xiaohua Lu</i>	<i>Esther Lim, Chin Tiong Ng, Cher Tok Tan and Keng Wah Choo</i>	<i>Diana Saplacan, Pekka Silvén and Daniel Einarson</i>			
		<b>Paper 62</b>	<b>Paper 40</b>	<b>Paper 15</b>			
		<b>Drivers and Barriers to Industry Engaging in Engineering Education</b>	<b>Project Based Learning: An Approach to one Robotic Cell Design</b>	<b>What Should we Teach? A Study of Stakeholders' Perceptions on Curriculum Content</b>			
		<i>Sally Male, Robin King and Douglas Hargreaves</i>	<i>Cleginaldo Carvalho</i>	<i>Mirka Kans</i>			

## TOPICAL SESSION SCHEDULE

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Wednesday 15.6.2016 13.10-14.20 / PARALLEL SESSION W2							
Session	Engineering Education Research 6	Advances in CDIO 4 & PiP	CDIO Implementation & PiPs <i>Design-Implement Experiences 3</i>	CDIO Implementation & PiPs <i>Projects in CS and Electronic Eng. 1</i>	CDIO Implementation & PiPs <i>CDIO Implementation Cases 3</i>	(spare)	(spare)
Room	Delta	Mu	Omega	Sigma	C1032 - Demo Classroom (1st floor)	-	-
Chair	Ron Hugo	Fredrik Georgsson	Jante Bernhard	Jo Verhaevert	Enrique Chacón Tanarro		
	<b>Paper 80</b>	<b>Paper 79</b>	<b>Paper 210</b>	<b>Paper 7</b>	<b>Paper 45</b>	-	-
	<b>On the Effect of Employment during the Last Year of Studies to Timely Graduation and Deep Learning</b>  <i>Petri Sainio and Seppo Virtanen</i>	<b>Self-developed Model for External Programme Review at Chalmers University of Technology – Stakeholder Needs and Perceptions</b>  <i>Johan Malmqvist, Duncan Campbell and Mats Nordlund</i>	<b>Real-world Engineering Projects in a Master Level Course</b>  <i>Johan Renner, Magnus Andersson, Karl Stork and Petter Ekman</i>	<b>Students' Role in Gamified Solutions in Healthcare RDI Project</b>  <i>Mika Luimula, Paula Pitkäkangas, Teppo Saarenpää, Natasha Bulatovic Trygg and Aung Pyae</i>	<b>CDIO Experiences in Biomedical Engineering: Preparing Spanish Students for the Future of Medicine and Medical Device Technology</b>  <i>Andres Diaz Lantada, Jose Javier Serrano Olmedo, Antonio Ros Felip, Javier Jimenez Fernandez, Julio Muñoz Garcia, Rafael Claramunt Alonso and Jaime Corral Huete</i>		
	<b>Paper 197</b>	<b>Paper 211</b>	<b>Paper 2</b>	<b>Paper 181</b>	<b>Paper 107</b>		
	<b>Student Study Habits as Inferred from On-line Watch Data</b>  <i>Ron Hugo and Robert Brennan</i>	<b>8 Years of Nordic Five Tech Peer Evaluation</b>  <i>Anna-Karin Högfeldt, Birgitte Lund Christiansen and Nils Rune Bodsberg</i>	<b>CDIO-based Teaching Contents and Method Reform of Environmental Impact Assessment Course</b>  <i>Liu Wei, Ye Zhixiang and Wang Jiayang</i>	<b>Motivating and Engolving Projects in Signal Processing Class</b>  <i>Bruno Masiero, Julian Quiroga and Jairo Hurtado</i>	<b>The "INGENIA" Initiative for Promoting CDIO at TU Madrid: Lessons Learned for Enhanced Performance</b>  <i>Julio Lumbreras Martín, Ana Moreno Romero, Enrique Chacón Tanarro, Andrés Diaz Lantada, Álvaro García Sánchez, Araceli Hernández Bayo, Carolina García Muñoz, Juan de</i>		
		<b>Paper 143</b>	<b>Paper 27</b>	<b>Paper 5</b>			
		<b>Updated Rubric for Self-evaluation (v.2.1)</b>  <i>Jens Bennedsen, Fredrik Georgsson and Juha Kontio</i>	<b>Learning through Design-implement Experiences – a Literature Review</b>  <i>Jonte Bernhard, Kristina Edström and Anette Kolmos</i>	<b>On Design-implement Projects in Electronic Engineering</b>  <i>Jo Verhaevert and Patrick Van Torre</i>			

## TOPICAL SESSION SCHEDULE

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Wednesday 15.6.2016 14.30-15.40 / PARALLEL SESSION W3							
Session	Introduction to CDIO	Engineering Education Research 7	CDIO Implementation & PiPs Design-Implement Experiences 4	CDIO Implementation & PiPs Projects in CS and Electronic Eng. 2	CDIO Implementation & PiPs Curriculum Design 4	(spare)	(spare)
Room	C3044 - Team Classroom (3rd floor)	Delta	Mu	Omega	Sigma	-	-
Chair	Jens Bennedsen & Fredrik Georgsson	Kristina Edström	Sarah Junaid	Lars Lundheim	Terry Lucke	-	-
	<b>CDIO Introductory 4</b>	<b>Paper 169</b>	<b>Paper 144</b>	<b>Paper 185</b>	<b>Paper 174</b>	-	-
	<b>Workshop on Continuous Improvement with Self-evaluation and Cross-sparring - Part 2</b>  by Jens Bennedsen & Fredrik Georgsson  (Participation in Part 1 is required if you want to join Part 2)	<b>Design Science Research - An Engineering Research Approach that may Inform as well Engineering Education as Engineering Education Research</b>  Anna-Karin Carstensen and Jonte Bernhard	<b>Approaching Work Integrated Learning through Learning Outcomes and Evaluations</b>  Daniel Einarson, Diana Saplacan and Pekka Silvén	<b>Active Learning in Electronics Engineering at Pontificia Universidad Javeriana</b>  Alejandra María González Correal, Flor Ángela Bravo Sánchez, Francisco Fernando Viveros Bravo, Kristell Fadul Renneberg and Jairo Alberto Hurtado Londoño	<b>Student Competence Profiles – a Complementary or Competitive Approach to CDIO?</b>  Åsa Wikberg Nilsson and Peter Törlind		
		<b>Paper 25</b>	<b>Paper 132</b>	<b>Paper 196</b>	<b>Paper 239</b>		
		<b>Aims of Engineering Education Research – The Role of the CDIO Initiative</b>  Kristina Edström	<b>Embedding Design-Build Experiences into Environmental Engineering Programs</b>  Phuong T M Nguyen and Tan N Tran	<b>Early Innovation Projects: First Experiences from the Electronic Engineering Ladder at NTNU</b>  Lars Lundheim, Torbjörn Ekman, Bojana Gajic, Bjørn Barstad Larsen and Thomas Tybell	<b>Creation of a Renewable Energy Training Center in Morocco</b>  Anas Bentamy, Sallem Koubida and Chafiq Abdelghani		
			<b>Paper 217</b>		<b>Paper 23</b>		
			<b>Student Perception and Level of Implementation of CDIO Principles in Individual Final Year Projects</b>  Sarah Junaid, Paul C. Gorman, Laura J. Leslie and Mark Prince		<b>It is Possible to Adapt CDIO for Distance and Online Education?</b>  Terry Lucke, Lyn Brodie, Ian Brodie and Siegfried Rouvrais		

## Wednesday 15.6.2016 15.50-17.00 / CLOSING SESSION

## CDIO Academy Awards &amp; Conference Closing Session

Room Alpha

Chair Juha Kontio