

TOPICAL SESSION SCHEDULE

www.cdio.ca

Updated 16.6.2017

EER = Engineering Education Research

Monday 19.6.2017 9.00-10.30 / KEYNOTE SESSION**Lynn Taylor & Ed Crawley**Room *ENC 70*Chair *Ron Hugo***Monday 19.6.2017 10.30-11.05 / POSTER TEASER SESSION**

See the Posters to be presented in Poster Reception M5. The Poster Teaser presentations will take place in submission ID order (smallest number first).

Room *ENC 70*Chair *Rick Sellens***Monday 19.6.2017 11.20-12.30 / PARALLEL SESSION M1**

Session	Introduction to CDIO	Teamwork	Project-Based Learning	Biomedical Engineering	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	<i>Taylor Institute A</i>	<i>ENA 101</i>	<i>ENA 103</i>	<i>ENG 224</i>	<i>Taylor Institute B</i>	<i>Taylor Institute C</i>
Chair	<i>Johan Malmqvist & Kristina Edström</i>	<i>Becky Bergman</i>	<i>Sanna Määttä</i>	<i>Juha Kontio</i>	<i>Jan van der Veen</i>	<i>Stephanie Hladik</i>
M1	CDIO Introductory 1	Paper 9	Paper 12	Paper 67	Paper 168	Paper 167
	CDIO Essentials - Part 1 <i>by Johan Malmqvist & Kristina Edström</i>	Team Based Learning and Project Based Learning as Innovative Methodologies in Engineering Education: A Comparison Between the Assessment Outcomes <i>Cleginaldo Carvalho</i>	Collecting Evidence of Learning in a Project-Based Study Abroad Program <i>Avinda Weerakoon and Nathan Dunbar</i>	THE UBORA PROJECT: Euro-African Open Biomedical Engineering e-Platform for Innovation through Education <i>Arti Ahluwalia, Carmelo De Maria, Andrés Diaz Lantada, Mannan Mridha, Philippa Ngaju Makobore, June Madete, Alvo Aabloo and Arni Leibovits</i>	Teacher Team Design of Interdisciplinary Engineering Courses <i>Jan van der Veen, Miles MacLeod and Inken Gast</i> Max. number of participants: 25	Approaches for Adapting CDIO in K-12 Engineering Outreach <i>Stephanie Hladik, Emily Marasco, Laleh Behjat, William Rosehart and Anders Nygren</i> Max. number of participants: 25
		Paper 66 Experts in teamwork - A large scale course for interdisciplinary learning and collaboration <i>Patric Wallin, Reidar Lyng, Bjørn Sortland and Sven Veine</i>	Paper 20 Addressing Integrated Learning through Project-Based Courses - Five Years of Improvements <i>Daniel Einarson and Diana Saplacan</i>	Paper 125 Engineering and Occupational Therapist Students in Design Projects – Cross-Disciplinary Meetings <i>Martina Berglund, Torbjörn Andersson and Vanja Pavlasevic</i>		
		Paper 117 Forming Effective Culturally Diverse Work Teams in Project Courses <i>Becky Bergman, Anthony Norman, Carl Johan Carlsson, Daniel Näfors and Anders Skoogh</i>	Paper 48 Development of the Learning Process in a Project-based Learning Environment <i>Sanna Määttä, Janne Roslöf and Marika Säisä</i>	Paper 41 Students' Role in Design-Implement Experiences – Case: Health Informatics project <i>Elina Kontio, Teppo Saarenpää, Tuomo Helo and Juha Kontio</i>		

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Monday 19.6.2017 12.40-13.40 / LUNCH (ENE 134) AND ROUNDTABLES - ORGANIZED AND POP-UP						
Session		Organized Roundtable	Organized Roundtable	Pop-up Roundtable	Pop-up Roundtable	
Room		ENG 130	ENG 124	ENG 122 Gathering Point	ENG 122 Gathering Point	
Chair		Nicoleta Maynard	Gareth Thomson			
		Paper 158	Paper 166	Pop-up	Pop-up	
		Getting Along with Others while Getting the Job Done: Embedding Teamwork Skills in Engineering Education Nicoleta Maynard and Thomas O'Neill	Developing Working Relationships between Engineering Education Initiatives Gareth Thomson and Fredrik Georgsson	Pop-up Roundtable #1 - Topic Proposals and Signup Sheets near Workshop Signup Sheets Min. 10 Participants to Initiate	Pop-up Roundtable #2 - Topic Proposals and Signup Sheets near Workshop Signup Sheets Min. 10 Participants to Initiate	

Monday 19.6.2017 13.40-14.50 / PARALLEL SESSION M2						
Session	Introduction to CDIO	Curriculum	Student Motivation	Experiences in learning	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Taylor Institue E	ENA 101	ENA 103	ENG 224	Taylor Institue C	Taylor Institue D
Chair	Johan Malmqvist & Kristina Edström	Suzanne Hallenga-Brink	Lisa Gommer	Janne Roslöf	L.F.M. Mebus	Andrew L. Gerhart
M2	CDIO Introductory 1	Paper 148	Paper 19	Paper 82	Paper 152 - Part 1	Paper 161 - Part 1
	CDIO Essentials - Part 2 by Johan Malmqvist & Kristina Edström	Mapping the CDIO Curriculum with Network Models Karen E Willcox and Luwen Huang	Ten Years of CDIO Experiences Linked to Toy Design: Making Students Design, Dream, Play & Learn Andres Diaz Lantada and Juan de Juanes Marquez Sevillano	The Pedagogical Developers Initiative - Systematic Shifts, Serendipities, and Setbacks Anders Berglund, Hans Havtun, Anna Jerbrant, Lasse Wingård, Magnus Andersson, Björn Hedin and Björn Kjellgren	E-Moderating: Bringing your Online Course to Life L.F.M. Mebus and R. van de Watering Max. number of participants: 25	Creative Problem Solving: Mess-finding and Problem Definition of Design Specifications Andrew L. Gerhart Max. number of participants: 25
		Paper 101	Paper 31	Paper 133		
		CDIO & Competence Based Curriculum Design Techniques: UNITEC Computer Science Program Reform Carlos R. Arias and Jorge Garcia	The Effect of Using "Learning-By-Doing" Approach on Students' Motivation in Learning Digital Electronics Eng Siong Goh and Vivian Shie Thow	From Learning Objectives to Observable Learning Christian W Probst and Florian Kammüller		
	Paper 78	Paper 144	Paper 94			
	Designing a Flexible, Choice-Based, Integrated, Professionally Challenging, Multidisciplinary Curriculum Suzanne Hallenga-Brink and Ellen Sjoer	Self-Directed Learning in a Research Course for Mechanical Engineers Lisa Gommer	Development of Collaborative Learning and Entrepreneurial Climate – Reflections from the Ten Years of ICT Showroom Janne Roslöf, Jerker Björkqvist and Seppo Virtanen			

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Monday 19.6.2017 15.00-16.10 / PARALLEL SESSION M3						
Session	Introduction to CDIO	EER1 - Learning structures	The Whole Engineer	Entrepreneurship	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Taylor Institue E	ENA 101	ENA 103	ENG 224	Taylor Institue C	Taylor Institue D
Chair	Ron Hugo	Siegfried Rouvrais	Angela Binder	Charlotte Norrman	L.F.M. Mebus	Andrew L. Gerhart
M3	CDIO Introductory 2	Paper 13	Paper 18	Paper 100	Paper 152 - Part 2	Paper 161 - Part 2
	Workshop on Design-Implement Exercises and Workspaces by Ron Hugo	Why Universities want to join CDIO? Juha Kontio	An Introductory Course with a Humanitarian Engineering Context Aruna Shekar and Mark Tunnicliffe	Teaching Entrepreneurship: To be the Wind under Students' Wings Suzanne Hallenga-Brink and Ellen Sjoer	E-Moderating: Bringing your Online Course to Life L.F.M. Mebus and R. van de Watering Max. number of participants: 25	Creative Problem Solving: Mess-finding and Problem Definition of Design Specifications Andrew L. Gerhart Max. number of participants: 25
			Paper 118	Paper 102		
			Integrating Sustainability as a Critical Skill in a CDIO "Product Development" Course Rafael Borge, Juan Manuel Munoz-Guijosa, Ana Moreno, Rafael Miñano, Enrique Chacón Tanarro, Francisco J. Fernández Ferreras and Julio Lumberas	Simple Mock-ups - Tool to Enhance Visualisation and Creativity in Entrepreneurship Courses Charlotte Norrman, Dzamila Bienkowska, Amanda Sundberg and Marcus André		
		Paper 140				
		Work-Based Learning Models in Engineering Curricula: Analysis and Insights from the French Experience Siegfried Rouvrais, Bernard Remaud and Morgan Saveuse		Paper 122	Paper 58	
			Integrating Sustainability Aspects in Mining Engineering Education Angela Binder, Alexander Hutwalker and Elisabeth Clausen	CDIO-based Entrepreneurship Courses as Drivers of Innovation in Industrial Segments Charlotte Norrman and Olof Hjelm		

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Monday 19.6.2017 16.20-17.30 / PARALLEL SESSION M4						
Session	Introduction to CDIO	EER2 - Course design	Technology and teaching	Project experiences	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Taylor Institue E	ENA 101	ENA 103	ENG 224	Taylor Institue C	ENG 07
Chair	Matt Murhpy & Juha Kontio	Alexandra Meikleham	Asrun Matthiasdottir	Mikael Enelund	Elizabeth Keller	Marjan Eggermont
M4	CDIO Introductory 3	Paper 106	Paper 34	Paper 92	Paper 157	Paper 170
	Workshop on Active Learning <i>by Matt Murphy & Juha Kontio</i>	To Teach is to Learn: Student and Instructor Perspectives on Assignment Development as a Springboard to Deep Learning <i>Marnie V Jamieson, Leah Goettler, Albert Liu and John M Shaw</i>	Technology and teaching in engineering education: Results from a blended course for faculty about blended and online learning <i>Martha Cleveland-Innes and Stefan Stenbom</i>	A Proposal of CDIE (Conceive – Design – Implement – Evaluate) Model to Improve the Innovation Ability of EEE's Students in Duy Tan University <i>Binh D. Ha, Dong T. Tran and Bao N. Le</i>	Using Students' Video Recordings to Enhance Teaching and Learning Elizabeth Keller and Marcus Litherander Max. number of participants: 25	I Miss my Pencil 3 Marjan Eggermont and Colin McDonald Max. number of participants: 25
		Paper 119 Using Online Feedback to Improve Course Delivery Design: A Literature Review <i>Alexandra Meikleham and Ron Hugo</i>	Paper 93 Emerging Technologies for Education; Can we make it Work <i>Renate Klaassen, Pleter de Vries and Aldert Kamp</i>	Paper 83 Design Thinking Oriented Methodology in Group Project as a Step in the CDIO Approach <i>Marcin Gnyba, Paweł Wierzba, Adam Mazikowski, Robert Bogdanowicz and Marcin Strąkowski</i>		
			Paper 85 ICT is here to stay; How do Teachers make the most of it? <i>Asrun Matthiasdottir and Ingunn Saemundsdottir</i>	Paper 63 CDIO Based Engineering Design and Optimization Course <i>Johannes Quist, Kanishk Bhadani, Magnus Bengtsson, Mikael Enelund, Steven Hoffenson, Magnus Evertsson and Johan Malmqvist</i>		

Monday 19.6.2017 17.30-19.00 / POSTER RECEPTION M5

Room	ENE 134 Lounge					
Chair	Rick Sellens					
M5	Paper 7 Extended Classroom on Engineering Education <i>Antti Piironen</i>	Paper 8 International Intensive Projects in Engineering Education <i>Antti Piironen and Markku Karhu</i>	Paper 21 Curriculum Reform for Improving Students' Teamwork Ability in Feng Chia University <i>Ben-ray Jai, Shu-hui Chen and Cindy Chou</i>	Paper 26 Teaching Innovations for Flipped Learning in Undergraduate and Graduate Industrial Robotics Subjects <i>Claudio Urrea, Manuel Vega and John Kem</i>	Paper 32 An Integrated Curriculum Approach to Develop Industry-ready Biomedical Engineering Graduates <i>Kallen Chong, Ong Hui Yng, Liang Kwong and Choo Keng Wah</i>	Paper 35 Initial Steps of CDIO Implementation at the Military Institute of Engineering in Brazil <i>André Rezende, Jorge de Cerqueira, Waldemar Neto, Aderson Passos and Svante Gunnarsson</i>
	Paper 43 Using Blogs for Authentic Assessment of Project Based Modules <i>Rubaina Khan</i>	Paper 47 On-line Version of the Course "Applying CDIO Standards in Engineering Education" <i>Alexander Chuchalin, Gleb Benson and Clement Fortin</i>	Paper 50 Experiences on a Multidisciplinary CDIO Project <i>Antti K. Piironen, Päivi Haho, Tuja Hirvikoski, Jaakko Porokuoikka and Marko Mäki</i>	Paper 51 Experiences of the First Year Introductory Project in Metropolia <i>Katriina Schrey-Niemenmaa and Antti K. Piironen</i>	Paper 56 Development of an Interdisciplinary Project in Industrial Engineering Course: Homemade Beer Production <i>Paulo França Barbosa Neto, Lucio Veraldo Jr, André Pirtouscheg and Humberto da Silva</i>	Paper 61 Development of Competencies of Students' in Project in the Industrial Engineering Course: Application of Syllabus <i>Lucio Veraldo, Benedito de Almeida, Jobter Duarte, Cesar Botura, José Lourenço and Messias Silva</i>
	Paper 70 Refocus of CDIO Standards to Enhance Students' Entrepreneurship Skills <i>Duong Vu, Dong L.T. Tran and Bao N. Le</i>	Paper 71 Teaching Reform and Practice of Single-chip Microcomputer Course for Mechanical Major Students Based on CDIO Model <i>Jianshu Cao, Yanhong Gu, Weiqing Li and Aiming Shen</i>	Paper 75 The Development of Generic Skills for College Students Based on International Exchange Programs <i>Nahomi M. Fujiki, Toshiaki Okumura and Yoshikatsu Kubota</i>	Paper 80 Do we Educate Engineers that can Engineer? <i>Mads Nyborg and Christian Probst</i>	Paper 84 How Feedback on a Digital Platform Supports Students' Learning <i>Aage Birkkjær Lauritsen</i>	Paper 90 Ways for Improving the Training Quality of Civil Engineering in Developing Countries <i>Thang C Nguyen and Chau M Duong</i>
	Paper 91 Learning through the Hands-on Project: An Introduction to the Freshman Engineering Program <i>Ching-Yi Lee, Bor-Tyng Wang, Chuang-Chien Chiu, Yu-Hui Chang and Wei Wang</i>	Paper 96 Forming and Integrating Skill Set in Courses and Program <i>Bac Le, Thanh Le Ngoc and Thu Nguyen Tran Minh</i>	Paper 99 Showcase of an Automatic Assessment System for Students' Performance and Accreditation <i>Tan N. Tran, Bao N. Le and Chung V. Le</i>	Paper 109 Overcoming Issues when Involving the Industry in Capstone Projects at UPC Telecom-BCN <i>Josep Pegueroles, Ramon Bragos and Ferran Marques</i>	Paper 115 Sustainable Engineers - Building Academic Organizations where Students can reach their Full Potential <i>Håkan Richardson and Jon Jaleby</i>	Paper 127 Innovative Learning Spaces for Experiential Learning: Underground Mines <i>Elisabeth Clausen and Angela Binder</i>
	Paper 132 Community-Engaged Learning Project within an Engineering Leadership Program <i>Robyn Paul, Lauren Jatana, Emily Wyatt and Arindoom Sen</i>	Paper 134 Conceptual Verification of CDIO Skills in the Electronic Engineering Curriculum at Quindío University <i>Jorge Hurtado, Alexander Tasamá, Francisco Ocampo and Alejandro Uribe</i>	Paper 136 The Role of Alumni Mentorship in the Success of Engineering Student Teams: A Study of SAE Sanctioned Teams at the University of Calgary <i>Allen Sandwell and Owen Thomas</i>	Paper 142 Teaching and Learning Reform Based on CDIO Concept for Non-Engineering Education: Ecology Major as an Example <i>Tu Thi Anh Le, Dung Ba Le and Hoa Duc Nguyen</i>	Paper 146 Improving the Attainment of Learning Outcomes through Industry Engagement <i>P. Sarasu, Anne Koteswara Rao, A. Abudnahir and Rangarajan Mahalakshmi Kishore</i>	

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Tuesday 20.6.2017 9.00-10.00 / KEYNOTE SESSION

Bill Rosehart & Kathy Perkins

Room	ENC 70
Chair	Ron Hugo

Tuesday 20.6.2017 10.15-11.25 / PARALLEL SESSION T1

Session	Sponsored Workshop (Enrollment list by the Front Desk)	EER3 - Flipped classrooms	Evaluation and assessment		Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	ENG 124	ENA 101	ENA 103		Taylor Institute C	ENG 07
Chair	Jerry Brusher	Sin Moh Cheah	Dzamilia Bienkowska		Aldert Kamp	Stefan Stenbom
T1	Sponsored Workshop	Paper 14	Paper 129		Paper 163 - Part 1	Paper 154 - Part 1
	MATLAB & SIMULINK: LOW-COST HARDWARE, MOBILE DEVICES, AND THE CLOUD	Pedagogy for Evidence-Based Flipped Classroom - Part 1: Framework	Analysis of Assessment Techniques for Blending Learning in Undergraduate Electrical Engineering Courses		How to Re-Imagine the CDIO Framework and Community to Better Prepare its Members for Tomorrow's Needs?	Online and Blended Course Design Using the Community of Inquiry
	Jerry Brusher	Sin Moh Cheah	Marcela Rodriguez, Anders Nygren and William D. Rosehart		Aldert Kamp	Stefan Stenbom and Martha Cleveland-Innes
	Max. number of participants: 25				Max. number of participants: 40	Max. number of participants: 25
		Paper 15	Paper 103			
		Pedagogy for Evidence-Based Flipped Classroom - Part 2: Case Study	The Evaluation Method of the CDIO Syllabus Achievements Based on the Examination Scoring Point			
	Sin Moh Cheah	Bo Dai, Wenxing Xu, Bo Lan, Teng Wang and Zhansheng Han				
	Paper 16	Paper 123				
	Pedagogy for Evidence-Based Flipped Classroom - Part 3: Evaluation	Peer Feedback in CDIO Courses in Organisation and Leadership				
	Sin Moh Cheah	Dzamilia Bienkowska and Eva Lovén				

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Tuesday 20.6.2017 11.35-12.45 / PARALLEL SESSION T2						
Session	Introduction to CDIO	EER4 - Project course design	CDIO Standards	Freshman and Capstone Design	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Taylor Institue E	ENA 101	ENA 103	ENG 224	Taylor Institue D	ENG 07
Chair	Fredrik Georgsson	Kanishk Bhadani	Johan Malmqvist	Alan Ryan	Robyn Paul	Stefan Stenbom
T2	CDIO Introductory 4	Paper 33	Paper 76	Paper 23	Paper 164	Paper 154 - Part 2
	Workshop on Tools for Continuous Improvement by Fredrik Georgsson	Effective Undergraduate Design-Build-Test Project Implementation: The Need for a Comprehensive Checklist of Self-Evaluation Criteria John Paul Hermon and Charles Declan McCartan	CDIO Standards Compliance: Monitoring Perception of Students' Proficiency Levels Marcia Muñoz, Claudia Martínez and Cristian Cárdenas	A Design-Implement Capstone Project in Electronics Engineering Patrick Van Torre and Jo Verhaevert	A LEGO Challenge to Develop Engineering Leadership Skills Robyn Paul, Emily Wyatt and Arindom Sen Max. number of participants: 25	Online and Blended Course Design Using the Community of Inquiry Stefan Stenbom and Martha Cleveland-Innes Max. number of participants: 25
		Paper 42	Paper 44			
		A Proposal for Introducing Optional CDIO Standards Johan Malmqvist, Kristina Edström and Ron Hugo	Implementation of Introduction to Engineering Course through Freshman Engineering Project A.Abudhahir, Anne Koteswara Rao, P.Sarasu and Rangarajan Mahalakshmi Kishore			
		Paper 65 Students Perspectives on Video-based Learning in CDIO-Based Project Courses Kanishk Bhadani, Christian Stöhr, Erik Hulthén, Johannes Quist, Magnus Bengtsson, Magnus Evertsson and Johan Malmqvist		Paper 141 Integrating CDIO philosophy into Manufacturing Engineering Capstone Projects Alan Ryan, Seamus Gordon, David Tanner and Peter Williams		

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Tuesday 20.6.2017 12.45-13.45 / LUNCH (ENE 134) AND ROUNDTABLES - ORGANIZED AND POP-UP

Session	Organized Roundtable	Pop-up Roundtable	Pop-up Roundtable	Pop-up Roundtable	
Room	ENG 124	ENG 130	ENG 122 Gathering Point	ENG 122 Gathering Point	
Chair	J. Paul Hermon	Johan Malmqvist			
	Paper 155	Pop-up	Pop-up	Pop-up	
	Using a Checklist to Enhance Design-Built-Test Project Implementation	Discussion Surrounding a Proposal for Introducing Optional CDIO Standards	Pop-up Roundtable #1 - Topic Proposals and Signup Sheets near Workshop Signup Sheets	Pop-up Roundtable #2 - Topic Proposals and Signup Sheets near Workshop Signup Sheets	
	J. Paul Hermon and Charles D. McCartan	Johan Malmqvist, Kristina Edström, & Ron Hugo	Min. 10 Participants to Initiate	Min. 10 Participants to Initiate	

Tuesday 20.6.2017 13.45-22.30 / CONFERENCE DINNER - BANFF

13.45-14.00	BOARD BUSES FOR BANFF
14.00-15.30	BUS TRIP TO BANFF
15.30-17.15	EXPLORATION - BANFF TOWNSITE
17.15-17.30	BUSES: BANFF TOWNSITE TO BANFF SPRINGS HOTEL
17.30-18.30	RECEPTION AT BANFF SPRINGS HOTEL
18.30-21.00	CONFERENCE DINNER AT BANFF SPRINGS HOTEL
21.00-22.30	BUS TRIP BANFF TO HOTEL DROPOFF: HOTEL ALMA; HOTEL VILLAGE; DOWNTOWN

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Wednesday 21.6.2017 9.30-10.30 / KEYNOTE SESSION	
Janaka Ruwanpura & Armen Pischdotchian	
Room	ENC 70
Chair	Ron Hugo

Wednesday 21.6.2017 10.40-11.50 / PARALLEL SESSION W1						
Session	EER5 - About learning	Curriculum design	Alternative learning environments	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)	
Room	ENA 101	ENA 103	ENG 224	Taylor Institue C	ENG 07	
Chair	Jasmin Jakupovic	Stephanie Hladik	José Carlos Quadrado	Carl Johan Carlsson	Anders Berglund	
W1	Paper 110 Design of Learning Objects - Prototyping Artifacts for Strategic Pedagogical Development <i>Åsa Wikberg Nilsson and Oskar Gedda</i>	Paper 38 Fostering Engineering Thinking with Curriculum Integrated STEM Game <i>Natalia Gafurova, Aleksandr Arnavtov, Alexey Fedoseev and Yaroslav Fadeev</i>	Paper 25 Developing Distance Learning in Computer Aided Design <i>Lauri Kantola, Ari Pikkarainen and Anu Pruikkonen</i>	Paper 4 - Part 1 Communication Activities in Engineering Education – Integrating Content and Language <i>Carl Johan Carlsson</i> Max. number of participants: 25	Paper 169 - Part 1 Will it be on the Exam? Or, how to Motivate your Students for the Subject! <i>Anders Berglund, Hans Havtun, Björn Hedin and Björn Kjellgren</i> Max. number of participants: 25	
	Paper 113 What makes Students learn for Life? <i>Jasmin Jakupovic and Anna-Karin Carstensen</i>	Paper 28 POGIL Based classes for Communication Engineering Course <i>Masoodhu Banu N.M. and Rajeswari K.</i>	Paper 145 CDIO in the Design of a Non-Engineering Program <i>Eduarda Pinto Ferreira, Angelo Martins and José Carlos Quadrado</i>			
		Paper 126 Modified CDIO Framework for Elementary Teacher Training in Computational Thinking <i>Stephanie Hladik, Laleh Behjat and Anders Nygren</i>				

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Wednesday 21.6.2017 12.00-13.10 / PARALLEL SESSION W2						
Session	Campus Tours (Enrollment list by the Front Desk)	EER6 - Digital learning and self-efficacy	Industrial Engagement	Program development	Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Registration Desk - ENG 122	ENA 101	ENA 103	ENG 224	Taylor Institue C	ENG 07
Chair	University of Calgary Staff / Faculty	Robert Brennan	Marika Säisä	Kanishk Bhadani	Carl Johan Carlsson	Anders Berglund
W2	Walking Tours	Paper 130	Paper 89	Paper 95	Paper 4 - Part 2	Paper 169 - Part 2
	Engineering Teaching and Learning Workspaces - Walking Tour	On the use of a Digital Learning Management System in Pre-Engineering Classrooms	Integration of Generic Skills in Engineering Education: Increased Student Engagement Using a CDIO Approach	Engaging with Industry Stakeholders to Validate Program Development	Communication Activities in Engineering Education – Integrating Content and Language	Will it be on the Exam? Or, how to Motivate your Students for the Subject!
	University of Calgary Staff / Faculty	Meera Singh, Qiao Sun, Cassy Weber, Margaret Glover-Cambell and Caitlin Quarrington	Thomas Mejtoft and Jimmy Vesterberg	Catrin Edelbro, Andreas Eitzenberger, Kristina Edström, Kristina Jonsson and Erik Swedberg	Carl Johan Carlsson	Anders Berglund, Hans Havtun, Björn Hedin and Björn Kjellgren
	Max. number of participants: 20				Max. number of participants: 25	Max. number of participants: 25
		Paper 36	Paper 120	Paper 59		
		A Self-efficacy Survey for Engineering Graduate Attributes Assessment	Designing Process Enablers to Strengthen Professional Skills in Project Work 2.0. Case studies of the CDIO activities at Aarhus School of Engineering	European Initiative on CDIO in Raw Material Programmes		
	Robert Brennan and Ron Hugo	Jane Flarup, Helle Wivel and Christina Munk	Catrin Edelbro, Erik Hulthén, Elisabeth Clausen, David Tanner, Juan Herrera Herbert, Kristina Jonsson, Stephan Bealieu, Aldert Kamp and Michael Först			
		Paper 40	Paper 64			
		Integration of CDIO Skills into Project-Based Learning in Higher Education	CDIO Course Development for Faculty in Raw Materials Programmes			
		Marika Säisä, Sanna Määttä and Janne Roslöf	Kanishk Bhadani, Erik Hulthén, Johan Malmqvist, Catrin Edelbro, Alan Ryan, David Tanner, Lisa O'Donoghue and Kristina Edström			

Wednesday 21.6.2017 13.10-14.10 / LUNCH (ENE 134) AND ROUNDTABLES - ORGANIZED AND POP-UP						
Session		Organized Roundtable	Organized Roundtable	Pop-up Roundtable	Pop-up Roundtable	
Room		ENG 124	ENG 130	ENG 122 Gathering Point	ENG 122 Gathering Point	
Chair		António Costa	Nicoleta Maynard			
		Paper 171	Paper 159	Pop-up	Pop-up	
		</SWitCH> Resource IT Conversion Training for non-engineer graduates	Using Makerspaces for STEM Engagement and Communities of Practice Development	Pop-up Roundtable #1 - Topic Proposals and Signup Sheets near Workshop Signup Sheets	Pop-up Roundtable #2 - Topic Proposals and Signup Sheets near Workshop Signup Sheets	
		Ângelo Martins, António Costa, João Rocha	Nicoleta Maynard, Rachel Sheffield, Susan Blackley and Rekha Koul	Min. 10 Participants to Initiate	Min. 10 Participants to Initiate	

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Wednesday 21.6.2017 14.10-15.20 / PARALLEL SESSION W3						
Session	Campus Tours (Enrollment list by the Front Desk)	CDIO implementation studies	Using robotics for learning		Sponsored Workshop (Enrollment list by the Front Desk)	Workshop (Enrollment list by the Front Desk)
Room	Registration Desk - ENG 122	ENA 101	ENA 103		Taylor Institue D	Taylor Institue E
Chair	University of Calgary Staff / Faculty	David Tanner	Jairo Alberto Hurtado		Armen Pischdotchian	Aldert Kamp
W3	Walking Tours	Paper 88	Paper 27		Sponsored Workshop	Paper 163 - Part 2
	Engineering Teaching and Learning Workspaces - Walking Tour	Experiences of Educational Reform - Implementation of CDIO at Industrial Design Engineering Asa Wikberg Nilsson, Carl Jörgen Normark, Peter Törlind and Therese Öhrling	Assessment of Flipped Learning Applied to Industrial Robotics in Undergraduate and Graduate Courses Claudio Urrea and Manuel Vega		Build a Face Recognition App using IBM Bluemix Cognitive Services Armen Pischdotchian	How to Re-Imagine the CDIO Framework and Community to Better Prepare its Members for Tomorrow's Needs? Aldert Kamp
	University of Calgary Staff / Faculty				Max. number of participants: 25	Max. number of participants: 40
	Max. number of participants: 20					
		Paper 5	Paper 73			
		A Case Study of CDIO Implementation in the Course of Hacking Exposed at Duy Tan Universty Nhan-Van Vo, Duc-Man Nguyen and Nhu-Hang Ha	Using Robotics to Generate Collaborative Learning, through the CDIO Initiative Jairo Alberto Hurtado, Martha Lucia Cano, Camilo Otálora, Gloria Ines Mestre and Flor Angela Bravo			
		Paper 37				
		A Review of CDIO Implementation in a First Year Multi-Programme Module: Reflections on Criteria Driven Pedagogical Strategy Selection David Tanner and Jason Power				
Wednesday 21.6.2017 15.30-17.15 / CLOSING SESSION						
CDIO Academy Awards & Conference Closing Session						
Room	ENC 70					
Chair	Ron Hugo					