



#	ID	Title	Authors (Bold = Registered participant)	Track	Presentation Format
1	5	A Case Study of CDIO Implementation in the Course of Hacking Exposed at Duy Tan University	<b>Nhan-Van Vo</b> , <b>Duc-Man Nguyen</b> and <b>Nhu-Hang Ha</b>	CDIO Implementation	Podium
2	7	Extended Classroom on Engineering Education	<b>Antti K. Piironen</b>	CDIO Projects in Progress	Poster
3	8	International Intensive Projects in Engineering Education	<b>Antti K. Piironen</b> and <b>Markku Karhu</b>	CDIO Implementation	Poster
4	9	Team Based Learning and Project Based Learning as Innovative Methodologies in Engineering Education: A Comparison Between the Assessment Outcomes	<b>Cleginaldo Pereira de Carvalho</b>	CDIO Projects in Progress	Podium
5	12	Collecting Evidence of Learning in a Project-Based Study Abroad Program	<b>Avinda Weerakoon</b> and <b>Nathan Dunbar</b>	CDIO Projects in Progress	Podium
6	13	Why Universities want to join CDIO?	<b>Juha Kontio</b>	EER	Podium
7	14	Pedagogy for Evidence-Based Flipped Classroom - Part 1: Framework	<b>Dennis Sale</b> and <b>Sin Moh Cheah</b>	EER	Podium
8	15	Pedagogy for Evidence-Based Flipped Classroom - Part 2: Case Study	<b>Sin Moh Cheah</b> , <b>Dennis Sale</b> and <b>H.B. Lee</b>	CDIO Implementation	Podium
9	16	Pedagogy for Evidence-Based Flipped Classroom - Part 3: Evaluation	<b>Sin Moh Cheah</b> and <b>Dennis Sale</b>	CDIO Implementation	Podium
10	18	An Introductory Course with a Humanitarian Engineering Context	<b>Aruna Shekar</b> and <b>Mark Tunnicliffe</b>	CDIO Implementation	Podium
11	19	Ten Years of CDIO Experiences Linked to Toy Design	<b>Andrés Díaz Lantada</b> and <b>Juan de Juanes Márquez Sevillano</b>	CDIO Implementation	Podium
12	20	Addressing Integrated Learning through Project-Based Courses - Five Years of Improvements	<b>Daniel Einarson</b> and <b>Diana Saplacan</b>	CDIO Implementation	Podium
13	21	Curriculum Reform for Improving Students' Teamwork Ability in Feng Chia University	<b>Ben-ray Jai</b> , <b>Shu-hui Chen</b> and <b>Huey-nah Cindy Chou</b>	CDIO Projects in Progress	Poster
14	23	A Design-Implement Capstone Project in Electronics Engineering	<b>Patrick Van Torre</b> and <b>Jo Verhaevert</b>	CDIO Implementation	Podium
15	25	Developing Distance Learning in Computer Aided Design	<b>Lauri Kantola</b> , <b>Ari Pikkarainen</b> and <b>Anu Pruikkonen</b>	CDIO Projects in Progress	Podium
16	26	Teaching Innovations for Flipped Learning in Undergraduate and Graduate Industrial Robotics Subjects	<b>Claudio Urrea</b> , <b>Manuel Vega</b> and <b>John Kern</b>	CDIO Projects in Progress	Poster
17	27	Assessment of Flipped Learning Applied to Industrial Robotics in Undergraduate and Graduate Courses	<b>Claudio Urrea</b> , <b>John Kern</b> and <b>Manuel Vega</b>	CDIO Projects in Progress	Podium
18	28	POGIL Based classes for Communication Engineering Course	<b>N.M. Masoodhu Banu</b> and <b>K. Rajeswari</b>	CDIO Implementation	Podium
19	31	The Effect of Using "Learning-By-Doing" Approach on Students' Motivation in Learning Digital Electronics	<b>Goh Eng Siong</b> and <b>Vivian Shie Thow</b>	CDIO Implementation	Podium
20	32	An Integrated Curriculum Approach to Develop Industry-ready Biomedical Engineering Graduates	<b>Kallen Chong</b> , <b>Ong Hui Yng</b> , <b>Liang Kwong</b> and <b>Choo Keng Wah</b>	CDIO Implementation	Poster
21	33	Effective Undergraduate Design-Build-Test Project Implementation: The Need for a Comprehensive Checklist of Self-Evaluation Criteria	<b>John Paul Hermon</b> and <b>Charles Declan McCartan</b>	EER	Podium



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22	34	Technology and Teaching in Engineering Education: A Blended Course for Faculty	Martha Cleveland-Innes, <b>Stefan Stenbom</b> and Sarah Gauvreau	CDIO Implementation	Podium
23	35	Initial Steps of CDIO Implementation at the Military Institute of Engineering in Brazil	André Luiz Tenório Rezende, Jorge Luis Rodrigues Pedreira de Cerqueira, Waldemar Barroso Magno Neto, Aderson Campos Passos and <b>Svante Gunnarsson</b>	CDIO Projects in Progress	Poster
24	36	A Self-efficacy Survey for Engineering Graduate Attributes Assessment	<b>Robert W. Brennan</b> and <b>Ronald J. Hugo</b>	EER	Podium
25	37	A Review of CDIO Implementation in a First-Year Multi-Programme Module	<b>David A. Tanner</b> and Jason Power	CDIO Projects in Progress	Podium
26	38	Fostering Engineering Thinking with Curriculum Integrated STEM Game	Natalia Gafurova, <b>Aleksandr Arnautov</b> , Alexey Fedoseev and Yaroslav Fadeev	CDIO Implementation	Podium
27	40	Integration of CDIO Skills into Project-Based Learning in Higher Education	<b>Marika Säisä</b> , <b>Sanna Määttä</b> and <b>Janne Roslöf</b>	CDIO Implementation	Podium
28	41	Students' Role in Design-Implement Experiences – Case: Health Informatics Project	Elina Kontio, Teppo Saarenpää, Tuomo Helo and <b>Juha Kontio</b>	CDIO Implementation	Podium
29	42	A Proposal for Introducing Optional CDIO Standards	<b>Johan Malmqvist</b> , <b>Kristina Edström</b> and <b>Ron Hugo</b>	Advances in CDIO	Podium
30	43	Using Blogs for Authentic Assessment of Project Based Modules	Rubaina Khan	CDIO Implementation	Poster
31	44	Implementation of Introduction to Engineering Course through Freshman Engineering Project	A. Abudhahir, <b>Anne Koteswara Rao</b> , <b>P. Sarasu</b> and Rangarajan Mahalakshmi Kishore	CDIO Projects in Progress	Podium
32	47	On-line Version of the Course “Applying CDIO Standards in Engineering Education”	Alexander Chuchalin, Gleb Benson and <b>Clement Fortin</b>	CDIO Projects in Progress	Poster
33	48	Development of the Learning Process in a Project-based Learning Environment	<b>Sanna Määttä</b> , <b>Janne Roslöf</b> and <b>Marika Säisä</b>	CDIO Implementation	Podium
34	50	Experiences on a Multidisciplinary CDIO Project	<b>Antti K. Piironen</b> , Päivi Haho, Jaakko Porokuokka, Tuija Hirvikoski and Marko Mäki	CDIO Implementation	Poster
35	51	Experiences of the First Year Introductory Project in Metropolia	Katriina Schrey-Niemenmaa and <b>Antti K. Piironen</b>	CDIO Projects in Progress	Poster
36	56	Development of an Interdisciplinary Project in Industrial Engineering Course: Homemade Beer Production	Paulo França Barbosa Neto, <b>Lucio Garcia Verardo Jr</b> , André Luiz Ortiz Pirtouscheg and Humberto Felipe da Silva	CDIO Projects in Progress	Poster
37	58	CDIO-based Entrepreneurship Courses as Drivers of Innovation in Industrial Segments	<b>Charlotte Norrman</b> and Olof Hjelm	CDIO Implementation	Podium
38	59	European Initiative on CDIO in Raw Material Programmes	<b>Catrin Edelbro</b> , <b>Erik Hulthén</b> , Elisabeth Clausen, <b>David Tanner</b> , <b>Juan Herrera Herbert</b> , Kristina Jonsson, Stephan Bealieu, <b>Aldert Kamp</b> and Michael Försth	Advances in CDIO	Podium
39	61	Development of Competencies of Students' in Project in the Industrial Engineering Course: Application of Syllabus	<b>Lucio Garcia Verardo Jr</b> , Benedito Manoel de Almeida, Joben Antônio Duarte Jr, Cesar Augusto Botura, José Lourenço Jr and Messias Borges Silva	CDIO Projects in Progress	Poster
40	63	CDIO Based Engineering Design and Optimization Course	Johannes Quist, <b>Kanishk Bhadani</b> , Magnus Bengtsson, Magnus Evertsson, <b>Johan Malmqvist</b> , <b>Mikael Enelund</b> and Steven Hoffenson	CDIO Implementation	Podium
41	64	CDIO Course Development for Faculty in Raw Materials Programmes	<b>Kanishk Bhadani</b> , <b>Erik Hulthén</b> , <b>Johan Malmqvist</b> , <b>Catrin Edelbro</b> , <b>Alan Ryan</b> , <b>David Tanner</b> , Lisa O'Donoghue and <b>Kristina Edström</b>	CDIO Implementation	Podium
42	65	Students Perspectives on Video-based Learning in CDIO-Based Project Courses	<b>Kanishk Bhadani</b> , Christian Stöhr, <b>Erik Hulthén</b> , Johannes Quist, Magnus Bengtsson, Magnus Evertsson and <b>Johan Malmqvist</b>	EER	Podium



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43	66	Experts in Teamwork - A Large Scale Course for Interdisciplinary Learning and Collaboration	<i>Patric Wallin, <b>Reidar Lyng</b>, Bjørn Sortland and Sven Veine</i>	CDIO Implementation	Podium
44	67	THE UBORA PROJECT: Euro-African Open Biomedical Engineering e-Platform for Innovation through Education	<i>Arti Ahluwalia, Carmelo De Maria, <b>Andrés Diaz Lantada</b>, Mannan Mridha, <b>Philippa Ngaju Makobore</b>, June Madete, Alvo Aabloo and Arni Leibovits</i>	CDIO Projects in Progress	Podium
45	70	Refocus of CDIO Standards to Enhance Students' Entrepreneurship Skills	<i>Duong Vu, <b>Dong L.T. Tran</b> and <b>Bao N. Le</b></i>	CDIO Projects in Progress	Poster
46	71	Teaching Reform and Practice of Single-chip Microcomputer Course for Mechanical Major Students Based on CDIO Model	<i>Jianshu Cao, <b>Yanhong Gu</b>, Weiqing Li and Aiming Shen</i>	CDIO Projects in Progress	Poster
47	73	Using Robotics to Generate Collaborative Learning, through the CDIO Initiative	<i>Flor Ángela Bravo Sánchez, Martha Lucía Cano Morales, <b>Jairo Alberto Hurtado Londoño</b>, Camilo Otálora Sánchez and Gloria Inés Mestre López</i>	CDIO Implementation	Podium
48	75	The Development of Generic Skills Based on International Exchange Programs	<i><b>Nahomi M. Fujiki</b>, Toshiaki Okumura and Yoshikatsu Kubota</i>	CDIO Projects in Progress	Poster
49	76	CDIO Standards Compliance: Monitoring Perception of Students' Proficiency Levels	<i><b>Marcia Muñoz</b>, Claudia Martínez and Cristian Cárdenas</i>	CDIO Implementation	Podium
50	78	Designing a Flexible, Choice-Based, Integrated, Professionally Challenging, Multidisciplinary Curriculum	<i><b>Suzanne Hallenga-Brink</b> and Ellen Sjoer</i>	Advances in CDIO	Podium
51	80	Do we Educate Engineers that can Engineer?	<i><b>Mads Nyborg</b> and <b>Christian W. Probst</b></i>	CDIO Projects in Progress	Poster
52	82	The Pedagogical Developers Initiative - Systematic Shifts, Serendipities, and Setbacks	<i>Anders Berglund, <b>Hans Havtun</b>, Anna Jerbrant, Lasse Wingård, Magnus Andersson, Björn Hedin and Björn Kjellgren</i>	Advances in CDIO	Podium
53	83	Design Thinking Oriented Methodology in Group Project as a Step in the CDIO Approach	<i><b>Marcin Gnyba</b>, Pawel Wierzba, Adam Mazikowski, Robert Bogdanowicz, Marcin Strąkowski and Michał Sobaszek</i>	CDIO Projects in Progress	Podium
54	84	How Feedback on a Digital Platform Supports Students' Learning	<i><b>Aage Birkkjær Lauritsen</b></i>	CDIO Implementation	Poster
55	85	ICT is here to stay; How do Teachers Utilize it?	<i><b>Asrun Matthiasdottir</b> and <b>Ingunn Saemundsdottir</b></i>	CDIO Projects in Progress	Podium
56	88	Experiences of Educational Reform - Implementation of CDIO at Industrial Design Engineering	<i><b>Åsa Wikberg-Nilsson</b>, Carl Jörgen Normark, Peter Törlind and Therese Öhrling</i>	CDIO Implementation	Podium
57	89	Integration of Generic Skills in Engineering Education: Increased Student Engagement Using a CDIO Approach	<i><b>Thomas Mejtoft</b> and <b>Jimmy Vesterberg</b></i>	CDIO Implementation	Podium
58	90	Ways for Improving the Training Quality of Civil Engineering in Developing Countries	<i><b>Thang C Nguyen</b> and <b>Chau M Duong</b></i>	CDIO Implementation	Poster
59	91	Learning through the Hands-on Project: An Introduction to the Freshman Engineering Program	<i><b>Ching-Yi Lee</b>, Bor-Tyng Wang, Chuang-Chien Chiu, Yu-Hui Chang and <b>Wei Wang</b></i>	CDIO Implementation	Poster
60	92	A Proposal of the C-D-I-E Model to Improve Students' Capability	<i>Binh D. Ha, Dong T. Tran and <b>Bao N. Le</b></i>	CDIO Implementation	Podium
61	93	Emerging Technologies in Engineering Education; Can we make it Work	<i>Pieter de Vries, <b>Renate Klaassen</b> and <b>Aldert Kamp</b></i>	CDIO Projects in Progress	Podium
62	94	Development of Collaborative Learning and Entrepreneurial Climate – Ten Years of ICT Showroom	<i><b>Janne Roslöf</b>, Jerker Björkqvist and Seppo Virtanen</i>	CDIO Implementation	Podium
63	95	Engaging with Industry Stakeholders to Support Program Development	<i><b>Catrin Edelbro</b>, Andreas Eitzenberger, <b>Kristina Edström</b>, Kristina Jonsson and Erik Swedberg</i>	CDIO Implementation	Podium



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64	96	Forming and Integrating Skill Set in Courses and Program	<i>Bac Le, Thanh Le Ngoc and Thu Nguyen Tran Minh</i>	CDIO Implementation	Poster
65	99	Showcase of an Automatic Assessment System for Students' Performance and Accreditation	<i>Tan N. Tran, Bao N. Le and Chung V. Le</i>	CDIO Projects in Progress	Poster
66	100	Teaching Entrepreneurship: To be the Wind under Students' Wings	<i>Suzanne Hallenga-Brink</i>	CDIO Implementation	Podium
67	101	CDIO & Competence Based Curriculum Design Techniques: UNITEC Computer Science Program Reform	<i>Carlos Roberto Arias and Jorge Garcia</i>	CDIO Implementation	Podium
68	102	Simple Mockups - Tool to Enhance Visualisation and Creativity in Entrepreneurship Courses	<i>Charlotte Norrman, Dzamila Bienkowska, Amanda Sundberg and Marcus André</i>	CDIO Implementation	Podium
69	103	The Evaluation Method of the CDIO Syllabus Achievements Based on the Examination Scoring Point	<i>Bo Dai, Wenxing Xu, Bo Lan, Teng Wang and Zhansheng Han</i>	CDIO Implementation	Podium
70	106	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>	EER	Podium
71	109	Overcoming Issues when Involving the Industry in Capstone Projects at UPC Telecom-BCN	<i>Josep Pegueroles, Ramón Bragós and Ferran Marques</i>	CDIO Projects in Progress	Poster
72	110	Design of Learning Artefacts - Prototyping Change of Educational Culture	<i>Åsa Wikberg Nilsson and Oskar Gedda</i>	EER	Podium
73	113	What makes Students learn for Life?	<i>Jasmin Jakupovic and Anna-Karin Carstensen</i>	EER	Podium
74	115	Sustainable Engineers	<i>Håkan Richardson and Jon Jaleby</i>	CDIO Projects in Progress	Poster
75	117	Forming Effective Culturally Diverse Work Teams in Project Courses	<i>Becky Bergman, Anthony Norman, Carl Johan Carlsson, Daniel Näfors and Anders Skoogh</i>	CDIO Implementation	Podium
76	118	Integrating Sustainability as a Critical Skill in a CDIO "Product Development" Course	<i>Rafael Borge, Juan Manuel Munoz-Guijosa, Ana Moreno, Francisco J. Fernández Ferreras, Enrique Chacón Tanarro, Rafael Miñano and Julio Lumbreras</i>	CDIO Implementation	Podium
77	119	Understanding Feedback to Improve Online Course Design	<i>Alexandra Meikleham and Ron Hugo</i>	EER	Podium
78	120	Designing Process Enablers to Strengthen Professional Skills in Project Work 2.0	<i>Jane Flarup, Helle Wivel and Christina Munk</i>	CDIO Implementation	Podium
79	122	Integrating Sustainability Aspects in Mining Engineering Education	<i>Angela Binder, Elisabeth Clausen and Alexander Hutwalker</i>	CDIO Implementation	Podium
80	123	Peer Feedback in CDIO Courses in Organisation and Leadership	<i>Dzamila Bienkowska and Eva Lovén</i>	CDIO Implementation	Podium
81	125	Engineering and Occupational Therapist Students in Design Projects – Cross-Disciplinary Meetings	<i>Martina Berglund, Torbjörn Andersson and Vanja Pavlasevic</i>	CDIO Implementation	Podium
82	126	Modified CDIO Framework for Elementary Teacher Training in Computational Thinking	<i>Stephanie Hladik, Laleh Behjat and Anders Nygren</i>	CDIO Implementation	Podium
83	127	Innovative Learning Spaces for Experiential Learning: Underground Mines	<i>Elisabeth Clausen and Angela Binder</i>	CDIO Implementation	Poster
84	129	Analysis of Assessment Techniques for Blended Learning in Undergraduate Electrical Engineering Courses	<i>Marcela Rodriguez, Anders Nygren and William D. Rosehart</i>	CDIO Projects in Progress	Podium



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85	130	<b>Addressing Diverse Learning Styles Using a Digital Learning Management System in Classrooms</b>	<b>Meera Singh</b> , Qiao Sun, Caitlin Quarrington, Margaret Glover-Cambell and Cassy Weber	EER	Podium
86	132	<b>Community-Engaged Learning Project within an Engineering Leadership Program</b>	<b>Robyn Paul</b> , Lauren Jatana, Emily Wyatt and Arindom Sen	CDIO Projects in Progress	Poster
87	133	<b>From Learning Objectives to Observable Learning</b>	<b>Christian W. Probst</b> and Florian Kammüller	CDIO Projects in Progress	Podium
88	134	<b>Conceptual Verification of CDIO Skills in the Electronic Engineering Curriculum at Quindío University</b>	<b>Jorge Iván Marín Hurtado</b> , Alexander Vera Tasamá, Francisco Javier Ibargüen Ocampo and Alejandro Herrera Uribe	CDIO Projects in Progress	Poster
89	136	<b>The Role of Alumni Mentorship in the Success of Engineering Student Teams: A Study of SAE Sanctioned Teams at the University of Calgary</b>	<b>Allen Sandwell</b> and Owen Thomas	CDIO Projects in Progress	Poster
90	140	<b>Work-Based Learning Models in French Engineering Curricula</b>	<b>Siegfried Rouvrais</b> , Bernard Remaud and Morgan Saveuse	EER	Podium
91	141	<b>Integrating CDIO Philosophy into Manufacturing Engineering Capstone Projects</b>	<b>Alan Ryan</b> , Seamus Gordon, <b>David Tanner</b> and Peter Williams	CDIO Implementation	Podium
92	142	<b>Teaching and Learning Reform Based on CDIO Concepts for Non-Engineering Education: Ecology Major as an Example</b>	<b>Tu Thi Anh Le</b> , Dung Ba Le and <b>Hoa Duc Nguyen</b>	CDIO Projects in Progress	Poster
93	144	<b>Self-Directed Learning in a Research Course for Mechanical Engineers</b>	<b>Lisa Gommer</b>	CDIO Implementation	Podium
94	145	<b>CDIO in the Design of a Non-Engineering Program</b>	Angelo Martins, Eduarda Pinto Ferreira and <b>José Carlos Quadrado</b>	CDIO Implementation	Podium
95	146	<b>Improving the Attainment of Learning Outcomes through Industry Engagement</b>	<b>P. Sarasu</b> , <b>Anne Koteswara Rao</b> , A. Abudhahir and Rangarajan Mahalakshmi Kishore	CDIO Projects in Progress	Poster
96	148	<b>Mapping the CDIO Curriculum with Network Models</b>	Karen E. Willcox and <b>Luwen Huang</b>	Advances in CDIO	Podium