

#	ID	Title	Authors (bold = registered participant)	Track	Presentation Format
1	2	<b>CDIO-based Teaching Contents and Method Reform of Environmental Impact Assessment Course</b>	<i>Liu Wei</i> , Ye Zhixiang and Wang Jiayang	CDIO Implementation	Podium
2	5	<b>On Design-implement Projects in Electronic Engineering</b>	<i>Jo Verhaevert</i> and Patrick Van Torre	CDIO Implementation	Podium
3	7	<b>Students' Role in Gamified Solutions in Healthcare RDI Project</b>	<i>Mika Luimula</i> , Paula Pitkäkangas, Teppo Saarenpää, Natasha Bulatovic Trygg and Aung Pyae	CDIO Implementation	Podium
4	8	<b>Innovation Generation Model - From Innovation Projects towards RDI Project Consortiums and Business Ecosystems</b>	<i>Mika Luimula</i> , Taisto Suominen, <b>Janne Roslöf</b> , Sakari Pieskä and Ari Lehtiniemi	CDIO Implementation	Podium
5	9	<b>Integrating Innovation Pedagogy and CDIO Approach – towards Better Engineering Education</b>	<i>Taru Penttilä</i> and <b>Juha Kontio</b>	EER	Podium
6	10	<b>IO (Implement and Operate) First in an Automatic Control Context</b>	<i>Svante Gunnarsson</i> , Ylva Jung, Clas Veibäck and Torkel Glad	CDIO Implementation	Podium
7	11	<b>Implementation of CDIO Standards within a Modular Curriculum of "Metallurgy" Programme</b>	Svetlana Osipova, Tatyana Stepanova and <b>Olga Shubkina</b>	CDIO Implementation	Podium
8	12	<b>New Role of Employer in the Educational Process of Metallurgy Programme</b>	Natalya Marchenko, Svetlana Osipova and <b>Alexander Arnautov</b>	CDIO Implementation	Podium
9	14	<b>Analyzing the Meaning of Interdisciplinary in the CDIO Context</b>	<i>Mirka Kans</i> and <b>Åsa Gustafsson</b>	EER	Podium
10	15	<b>What Should we Teach? A Study of Stakeholders' Perceptions on Curriculum Content</b>	<i>Mirka Kans</i>	CDIO Implementation	Podium
11	18	<b>Flipping a Chemical Engineering Module Using an Evidence-based Teaching Approach</b>	<i>Sin Moh Cheah</i> , Dennis Sale and Hui Bee Lee	Advances in CDIO	Podium
12	19	<b>Experiences on Collaborative Quality Enhancement using Cross-sparring between two Universities</b>	<i>Robin Clark</i> , <b>Elina Kontio</b> , <b>Janne Roslöf</b> , <b>Paula Steinby</b> and <b>Gareth Thomson</b>	Advances in CDIO	Podium
13	21	<b>Integrating Awareness of Career Prospects into Year-1 Chemical Engineering Curriculum</b>	<i>Sin Moh Cheah</i>	CDIO Implementation	Podium
14	24	<b>The Implementation of the CDIO Initiative in CUIT</b>	<i>Luqiao Zhang</i> , Juan Wang, Fei Li and Lei Shi	CDIO Implementation	Podium
15	25	<b>Aims of Engineering Education Research – The Role of the CDIO Initiative</b>	<i>Kristina Edström</i>	EER	Podium
16	28	<b>Waves of Reform - Analysing a History of Educational Development Concepts</b>	<i>Oskar Gedda</i> , <b>Åsa Wikberg Nilsson</b> , <b>Rickard Garvare</b> and <b>Kristina Edström</b>	CDIO Implementation	Workshop
17	29	<b>Design and Innovation of Physics Experiment Based on CDIO Model</b>	Jijun Zhou, Xiaolin Zheng, Lei He, Jianan Sheng, Xiuying Gao and <b>Min Chen</b>	CDIO Implementation	Podium
18	30	<b>"Engineering Design" Course Transformation: From a Conceive-Design towards a Complete CDIO Approach</b>	<b>Juan M. Munoz-Guijosa</b> , <b>Andrés Díaz Lantada</b> , <b>Enrique Chacón Tanarro</b> , Javier Echávarri Otero, José Luis Muñoz Sanz and Julio Muñoz García	CDIO Implementation	Podium
19	38	<b>Design and Practice of Preliminary Class for A<sup>3</sup> Learning System</b>	<b>Nahomi Fujiki</b> , Yoshihiro Hayakawa, Shinji Chiba, Yasuhiro Kashiwaba, Akiko Takahashi, Hideyuki Kobayashi and Tetsu Suzuki	CDIO Implementation	Poster
20	40	<b>Project Based Learning: An Approach to one Robotic Cell Design</b>	<b>Cleginaldo Carvalho</b>	CDIO Implementation	Podium
21	41	<b>Assessment and Analysis of Engineering Practical Abilities Learning Outcomes of Undergraduates through University-Enterprise Cooperation</b>	<b>Nengsheng Bao</b> , <b>Yueyun Chen</b> and <b>Xiaohua Lu</b>	Advances in CDIO	Podium
22	45	<b>CDIO Experiences in Biomedical Engineering: Preparing Spanish Students for the Future of Medicine and Medical Device Technology</b>	<b>Andres Diaz Lantada</b> , Jose Javier Serrano Olmedo, Antonio Ros Felip, Javier Jimenez Fernandez, Julio Muñoz Garcia, Rafael Claramunt Alonso and Jaime Carpio Huertas	CDIO Implementation	Podium

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23	46	Adaptation of the CDIO-framework in Management Courses for Engineering Students - a Micro-level Approach	<b>Dzamilia Bienkowska</b> , <b>Charlotte Norrman</b> and <b>Per Frankelius</b>	CDIO Implementation	Podium
24	49	CDIO as a Blueprint for Community Service Engineering Education	<b>Suzanne Hallenga-Brink</b> and <b>Jan Dekelver</b>	CDIO Implementation	Podium
25	50	Adopting CDIO to Integrate Engineering with Business	<b>Weng Yew Wong</b> , <b>Safura Anwar</b> and <b>Shanker Maniam</b>	CDIO Implementation	Podium
26	52	Experiences in Integrating Ethics for Engineers in MSc Programmes	<b>Ulrika Lundqvist</b>	CDIO Implementation	Podium
27	54	Validity Assessment of the P-B-P Model across Various Engineering Disciplines for Better Team Learning Results	<b>Dong T Tran</b> , <b>Binh D Ha</b> and <b>Bao N Le</b>	CDIO Implementation	Podium
28	55	Capstone Problem Design for Optimal Learning Curve in Architecture Design	<b>Hieu X Luong</b> and <b>Bao N Le</b>	CDIO Implementation	Podium
29	56	Using Facebook as a Supplementary Communication Channel for Active Learning	<b>Vu T Truong</b> , <b>Thuan T Nguyen</b> and <b>Bao N Le</b>	CDIO Implementation	Podium
30	57	CDIO as a Cross-Discipline Academic Model	<b>Dave Wackerlin</b> and <b>Jordan Martin</b>	EER	Podium
31	58	Integrating CDIO Skills by Teamwork in a School of Engineering - ISEP	<b>Florinda Martins</b> and <b>Eduarda Pinto Ferreira</b>	CDIO Implementation	Podium
32	61	Global Distributed Engineering Student Design Teams: Effectiveness and Lessons Learned	<b>Mikael Enelund</b> , <b>Jason Moore</b> , <b>Monica Ringvik</b> and <b>Martin Trethewey</b>	Advances in CDIO	Podium
33	62	Drivers and Barriers to Industry Engaging in Engineering Education	<b>Sally Male</b> , <b>Robin King</b> and <b>Douglas Hargreaves</b>	Advances in CDIO	Podium
34	66	Active Learning through 3D Printing Technology and Prototyping	<b>Esther Lim</b> , <b>Chin Tiong Ng</b> , <b>Cher Tok Tan</b> and <b>Keng Wah Choo</b>	CDIO Implementation	Podium
35	68	Teaching-Research nexus in Engineering Education	<b>Marie Magnell</b> , <b>Johan Söderlind</b> and <b>Lars Geschwind</b>	EER	Podium
36	69	Industry-Inspired Experiential Learning and Assessment of Teamwork	<b>Flex Tio</b>	CDIO Implementation	Podium
37	72	A Framework for Language and Communication in the CDIO Syllabus	<b>Jamie Rinder</b> , <b>Teresa Sweeney Geslin</b> and <b>David Tual</b>	EER	Podium
38	73	Devising an Electric Power System: A CDIO Approach Applied to Electrical Engineering	<b>Rosa M. de Castro</b> , <b>Jaime Rodríguez</b> , <b>Luis Beites</b> , <b>Francisco Blázquez</b> , <b>Araceli Hernández</b> , <b>Mohamed Izzeddine</b> , <b>Marcos Lafoz</b> , <b>Sergio Martínez</b> , <b>Carlos A. Platero</b> , <b>Dionisio Ramírez</b> , <b>Carlos Veganzones</b> and <b>Eduardo Caro</b>	CDIO Implementation	Poster
39	74	Working Day Model for Students in Chemical and Materials Engineering	<b>Anne Norström</b> and <b>Taina Hovinen</b>	CDIO Implementation	Poster
40	76	Application of CDIO in Non-Engineering Programmes – Motives, Implementation and Experiences	<b>Johan Malmqvist</b> , <b>Helene Leong-Wee Kwee Huay</b> , <b>Juha Kontio</b> and <b>Trinh Doan Thi Minh</b>	Advances in CDIO	Podium
41	77	The Pedagogical Developers Initiative - Development, Implementation, and Lessons Learned from a Systematic Approach to Faculty Development	<b>Anders Berglund</b> , <b>Hans Havtun</b> , <b>Anna Jerbrant</b> , <b>Lasse Wingård</b> , <b>Magnus Andersson</b> , <b>Björn Hedin</b> , <b>Juliette Soulard</b> and <b>Björn Kjellgren</b>	CDIO Implementation	Podium
42	78	Towards Developing a Communication Training Module for Customer-based Projects	<b>Kalliopi Skarli</b>	CDIO Implementation	Poster
43	79	Self-developed Model for External Programme Review at Chalmers University of Technology – Stakeholder Needs and Perceptions	<b>Johan Malmqvist</b> , <b>Duncan Campbell</b> and <b>Mats Nordlund</b>	Advances in CDIO	Podium
44	80	On the Effect of Employment during the Last Year of Studies to Timely Graduation and Deep Learning	<b>Petri Sainio</b> and <b>Seppo Virtanen</b>	EER	Podium

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45	82	Directed Student Engagement and Learning in a Large Engineering Unit	<b>Douglas Hargreaves</b>	CDIO Implementation	Podium
46	85	Findings in Professional Training: Computer Engineering Science Program, UCTEMUCO	<b>Marcos Levano</b> and <i>Andrea Albornoz</i>	CDIO Implementation	Podium
47	89	How to Culture Innovation Competency in Network Principle Course	<b>Hong Wang</b> , <i>Yingpeng Yang</i> and <i>Wei Sun</i>	CDIO Implementation	Podium
48	103	Implementing CDIO in Twelve Programs Simultaneously: Change Management	<b>Suzanne Hallenga-Brink</b> and <b>Oda Kok</b>	CDIO Implementation	Podium
49	105	Adding CDIO-Components to (Non-)CDIO Courses	<b>Christian W Probst</b>	CDIO Implementation	Podium
50	107	The “INGENIA” Initiative for Promoting CDIO at TU Madrid: Lessons Learned for Enhanced Performance	<i>Julio Lumbreras Martín, Ana Moreno Romero, Enrique Chacón Tanarro, Andrés Díaz Lantada, Alvaro García Sánchez, Araceli Hernández Bayo, Carolina García Martos, Juan de Juanes Márquez Sevillano, Ana García Ruíz, Oscar García Suárez, Claudio Rossi and Emilio Minquez Torres</i>	CDIO Implementation	Podium
51	109	Creating New Design-Build-Test Experiences as Outputs of Undergraduate Design-Build-Test Projects	<b>John Paul Hermon</b>	CDIO Implementation	Podium
52	111	The Innovation Element of the Diploma (B.Eng.) Programs at DTU	<b>Mads Nyborg</b> and <b>Nynne Budtz Christiansen</b>	Advances in CDIO	Podium
53	113	Mobile Phone Physics Laboratory	<b>Patric Granholm</b>	CDIO Implementation	Workshop
54	115	EduScrum – The Empowerment of Students in Engineering Education?	<b>Eduarda Pinto Ferreira</b> and <b>Angelo Martins</b>	CDIO Implementation	Podium
55	118	CDIO Implementation in Swedish Upper Secondary Education	<b>Helena Isaksson Persson</b> and <i>Lena Gumaelius</i>	CDIO Implementation	Podium
56	120	Focusing on Creativity: Faculty Motivation in Teaching Brain-storming and Creativity in an Introductory Course	<b>Ásrún Matthíasdóttir</b> , <b>Ingunn Sæmundsdóttir</b> , <i>Haraldur Auðunsson</i> and <b>Hera Grímsdóttir</b>	CDIO Implementation	Podium
57	121	Mixing Design, Management and Engineering Students in Challenge-based Projects	<i>Lotta Hassi, Juan Ramos-Castro, Luciana Leveratto, Joonas Juhani Kurikka, Guido Charosky, Tuuli Maria Utraiainen, Ramon Bragos</i> and <i>Markus Nordberg</i>	CDIO Implementation	Podium
58	122	Integrating and Innovating Methodologically an Introductory Engineering Course: Using Service Learning	<b>Solange Loyer</b> , <i>Manuel Loyola, Hernán Silva, Marco Gómez, Karla Contreras and Felipe González</i>	CDIO Implementation	Podium
59	127	Student Perspectives on Flipped Classrooms in Engineering Education	<b>Mikael Cronhjort</b> and <i>Maria Weurlander</i>	EER	Podium
60	128	An Evidence-based Approach to Assessing and Developing Teamwork Skills	<b>Nicole Larson</b> , <b>Thomas O'Neill</b> , <b>Genevieve Hoffart</b> , <i>Marjan Eggermont, William Roseheart and Julia Smith</i>	EER	Podium
61	129	Investigation of the Geosocial Obstacles in the Curriculum Development of Civil Engineering Programs in Vietnam	<i>Duong T Nguyen, Duc V Tran, Chau M Duong</i> and <i>Thang C Nguyen</i>	CDIO Implementation	Podium
62	135	CDIO Implementation Experience for the Masters Training at SUAI	<i>Julia Antokhina, Valentin Olenev</i> and <i>Yuriy Sheynin</i>	CDIO Implementation	Podium
63	137	Learning Nanotechnology, Business and Communication by Envisioning Future Products	<b>Mika Jokinen</b> , <b>Sari Loppela-Rauha</b> and <i>Monica Tamminen</i>	CDIO Implementation	Podium
64	138	Integrating Business Skills in Engineering Education: Enhancing Learning Using a CDIO Approach	<b>Thomas Mejtoft</b>	CDIO Implementation	Podium
65	139	Implementing a 15 kW Electric Solar Power System as a Student Project	<b>Teijo Lahtinen</b> and <b>Jussi Kuusela</b>	CDIO Implementation	Poster
66	141	Designing a Comprehensive Methodology to Integrate Sustainability Issues in CDIO Projects	<b>Rafael Miñano-Rubio</b> , <b>Ana Moreno-Romero</b> , <i>Julio Lumbreras, Ángel Uruburu, Ruth Carrasco-Gallego and Rafael Borge</i>	CDIO Implementation	Podium

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67	142	Using Self-Evaluations for Collaborative Quality Enhancement - A Case Study	<b>Jens Bennedsen</b> and <b>Katriina Schrey-Niemenmaa</b>	Advances in CDIO	Podium
68	143	Updated Rubric for Self-evaluation (v.2.1)	<b>Jens Bennedsen</b> , <b>Fredrik Georgsson</b> and <b>Juha Kontio</b>	Advances in CDIO	Podium
69	144	Approaching Work Integrated Learning through Learning Outcomes and Evaluations	<b>Daniel Einarson</b> , <b>Diana Saplacan</b> and <b>Pekka Silvén</b>	CDIO Implementation	Podium
70	145	Cultivation of Innovative Ability in Multi-level CDIO Workshops	<i>Ke Cheng, Min Fan, Feng Chen, Jijun Zhou and Min Chen</i>	CDIO Implementation	Podium
71	147	Enhancing Students' Self-directed Learning and Motivation	<b>Helene Leong</b> , <i>Ang Jin Shaun</i> and <i>Mark Nivan Singh</i>	CDIO Implementation	Podium
72	148	Learning by Teaching: Student Developed Material for Self-directed Studies	<b>Jörg Schminder</b> , <i>Hossein Nadali Najafabadi</i> and <b>Roland Gärdhagen</b>	CDIO Implementation	Podium
73	153	Enhancing Teaching Skills: A Professional Development Framework for Lecturers	<b>Helene Leong</b> , <i>Mark Nivan Singh</i> and <i>Dennis Sale</i>	CDIO Implementation	Podium
74	155	Reflective Diaries – A Tool for Promoting and Probing Student Learning	<b>Patric Wallin</b> , <i>Tom Adawi</i> and <i>Julie Gold</i>	EER	Podium
75	156	Interdisciplinary Faculty Learning Communities in Engineering Programs: The UCSC Experience	<b>Solange Loyer</b> , <i>Marcia Muñoz, Hernán Silva, Marco Gómez, Manuel Loyola and Felipe González</i>	CDIO Implementation	Podium
76	157	Steps for Iterating Design-Implement Experiences into a CDIO Course	<i>Sergi Bermejo, Miguel Ángel García-González, Ramon Bragós, Núria Montesinos and Montserrat Ballarín</i>	CDIO Implementation	Poster
77	158	Enhancing Quality Together with the CDIO Community	<b>Juha Kontio</b>	Advances in CDIO	Podium
78	161	Assessment in a Learning-Centered Course Design Framework	<i>Hossein Nadali Najafabadi, Magnus Andersson and Matts Karlsson</i>	CDIO Implementation	Podium
79	162	Adapting CDIO to Civil Engineering: Investigate - Plan - Design - Construct - Operate and Maintain	<b>Martin Nilsson</b> , <b>Catrin Edelbro</b> and <b>Kristina Edström</b>	Advances in CDIO	Workshop
80	163	Workshop on Implementing Communication Activities in Engineering Education – Integrating Content and Language	<b>Carl Johan Carlsson</b>	CDIO Implementation	Workshop
81	165	Application of CDIO Approach to Engineering BEng, MSc and PhD Programs Design and Implementation	<i>Alexander Chuchalin, Natalia Daneikina and Clément Fortin</i>	CDIO Implementation	Podium
82	167	Design-build Experiences – ICU GAME Capstone Project	<b>Elina Kontio</b> and <i>Riitta-Liisa Lakanmaa</i>	CDIO Implementation	Poster
83	169	Design Science Research as an Approach for Engineering Education Research	<b>Anna-Karin Carstensen</b> and <b>Jonte Bernhard</b>	EER	Podium
84	171	Use of Conceive-Design Learning Environments to Prepare Engineers for the Development of Complex and Highly Integrated Aeronautical Systems	<b>Paulo Lourencao</b> , <i>Fernando Rosa</i> and <i>Otto Resende</i>	CDIO Implementation	Podium
85	172	Learning Assessment – a Palette of Methods in a Master's Program	<b>Martina Berglund</b> and <i>Anette Karlton</i>	CDIO Implementation	Podium
86	173	A Preliminary Case Study for Collaborative Quality Enhancement	<b>Charles McCartan</b> , <b>Paul Hermon</b> , <b>Fredrik Georgsson</b> , <i>Henrik Björklund</i> and <i>Jonny Pettersson</i>	Advances in CDIO	Podium
87	174	Student Competence Profiles – a Complementary or Competitive Approach to CDIO?	<b>Åsa Wikberg Nilsson</b> and <i>Peter Törlind</i>	CDIO Implementation	Podium
88	181	Motivating and Envolving Projects in Signal Processing Class	<i>Bruno Masiero, Julian Quiroga and Jairo Hurtado</i>	CDIO Implementation	Podium

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89	182	<b>CEP - CDIO Enabling Platform as a Catalyst for Course Integration</b>	<b>Peter Hallberg</b>	CDIO Implementation	Podium
90	184	<b>Concrete Mix Design Competition: Implementing CDIO in Civil Engineering</b>	<b>Lynne Cowe Falls</b> , Terry Quinn and Robert Day	CDIO Implementation	Poster
91	185	<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 <b>Jairo Alberto Hurtado Londoño</b>	CDIO Implementation	Podium
92	186	<b>Teaching and Learning Activities Leading to Engineering Graduate Attribute Development</b>	<b>Robyn Paul</b> , <b>Stephanie Hladik</b> and <b>Ron Hugo</b>	EER	Podium
93	188	<b>Developing an Online Professional Development Curriculum for Students on Internship</b>	<b>Robyn Paul</b> , Arin Sen and Bill Rosehart	CDIO Implementation	Podium
94	189	<b>Studios and Sustainability: A Creative CDIO Approach to Computer Engineering Education</b>	<b>Emily Marasco</b> , Mohammad Moshirpour, Laleh Behjat and William Rosehart	CDIO Implementation	Podium
95	191	<b>Pairwise Collaborative Quality Enhancement: Experience of Two Engineering Programmes in Iceland and France</b>	<b>Siegfried Rouvrais</b> , <b>Haraldur Auðunsson</b> , <b>Ingunn Sæmundsdóttir</b> , Gabrielle Landrac and Claire Lassudrie	Advances in CDIO	Podium
96	194	<b>Enhancing the RDI Competence of Master's Students through Diversity Management Interventions</b>	James Collins, Erja Turunen and <b>Antti Piironen</b>	CDIO Implementation	Podium
97	196	<b>Early Innovation Projects: First Experiences from the Electronic Engineering Ladder at NTNU</b>	<b>Lars Lundheim</b> , Torbjörn Ekman, Bojana Gajic, Bjørn Barstad Larsen and Thomas Tybell	CDIO Implementation	Podium
98	197	<b>Student Study Habits as Inferred from On-line Watch Data</b>	<b>Ron Hugo</b> and Robert Brennan	EER	Podium
99	199	<b>Impact of Global Forces and Empowering Situations on Engineering Education in 2030</b>	<b>Aldert Kamp</b> and <b>Renate Klaassen</b>	EER	Podium
100	200	<b>Flipped Math, Lessons Learned from a Pilot at Mechanical Engineering</b>	<b>Lisa Gommer</b> , <b>Eduardo Hermsen</b> and Gerrit Zwier	CDIO Implementation	Podium