



#	ID	Title	Authors (Bold = Registered participant)	Track	Presentation Format
1	3	Education as Complex System: Need for More Forward-looking CDIO Program Evaluation	Sin Moh Cheah	Advances in CDIO	Podium
2	4	Developing a Didactic Foundation for the TECH Faculty at Aarhus University	Geir Øien and Jens Bennedsen	CDIO Implementation	Podium
3	5	Reflections about Reflections	Svante Gunnarsson , Urban Forsberg and Daniel Axehill	CDIO Implementation	Podium
4	8	A Framework for a Sustainability Transition of Two Engineering Master's Courses	Anders Adlemo	CDIO Implementation	Podium
5	9	Is My Master Thesis Research Project Sustainable? Including Sustainability in "Research Methodologies"	Ines Uriol Balbin	CDIO Implementation	Podium
6	10	Chemical Engineering Education: Pedagogy for Learning from Failure in Process Plant Operations	Sin Moh Cheah	CDIO Implementation	Podium
7	11	Networking Change Leader - New Role for a Program Director in Engineering Education	Magnus Andersson	Engineering Education Research	Podium
8	12	From University to Work: Alumni Viewpoints	Helena Kovacs , Iris Capdevila , Isabelle Lermigeaux-Sarrade and Patrick Jermann	Engineering Education Research	Podium
9	13	The Nature of Progression between Yearly Project Courses	Camilla Björn , Kristina Edström , Liv Gingnell , Joakim Lilliesköld and Marie Magnell	Engineering Education Research	Podium
10	17	Inquiry, the Scientific Tool for All Instructional Methodologies	Masoodhu Banu N.M. , Padmanabha Sarma A and Deepa Thiyam	CDIO Implementation	Podium
11	19	Skills Assessment in Innovation and Entrepreneurship Education Initiatives	Alessandra Scroccaro , Jeanette Engzell , Charlotte, A. Norrman , Milena Bigatto and Cia Lundvall	Engineering Education Research	Podium
12	20	Training Future Skills - Sustainability, Interculturality & Innovation in a Digital Design Thinking Format	Linda Steuer-Dankert	CDIO Implementation	Poster
13	21	Scaling up Project-based Learning in Engineering beyond 100 BSc Students: A Practical Approach	Claas Willem Visser and Cornelis Venner	CDIO Implementation	Podium
14	23	Pneumatics Laboratory Interactive Educational Experience Development	Ivanna Sandyk , Margus Müür , Vladimir Kuts , Yevhen Bondarenko , Simone Luca Pizzagalli and Tiia Ruutmann	CDIO Implementation	Podium
15	27	Embedding the Social Sciences in Engineering Education: Collaboration with a Politics Degree	Susan Kenyon	CDIO Implementation	Podium
16	29	Teaching Engineering as a Design Science	Remon Rooij and Linette Bossen	Engineering Education Research	Podium
17	32	Curriculum Agility as Optional CDIO Standard	Suzanne Brink , Carl Johan Carlsson , Mikael Enelund , Kristina Edström , Elizabeth Keller , Reidar Lyng and Charlie McCartan	Advances in CDIO	Podium
18	37	Blended Laboratories for Joining Technology	Shahram Sheikhi , Konstantin Bronstein , Eduard Mayer , Robert Langer , Azadeh Reise and Christian Stöhr	CDIO Implementation	Podium
19	39	Group Practices in a Collaborative Design Project – a Video-ethnographic Study	Jonte Bernhard , Jacob Davidsen and Thomas Ryberg	Engineering Education Research	Podium
20	40	CDIO and Competency-based Learning Approaches Applied Together to Military Engineering Education	Andre Luiz Tenorio Rezende , Carlos Frederico de Matos Chagas , Gustavo Simao Rodrigues and Suzana Marly da Costa Magalhaes	CDIO Implementation	Podium
21	41	Embedding Sustainability and Ethical Competences into Engineering Education Following CDIO	Juhani Angelva , Maisa Mielikäinen and Tauno Tepsa	CDIO Implementation	Podium



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22	42	Development of Simulation Tools to Enhance the Real-world Connections for Active Learner	Hiromasa Ohnishi	CDIO Implementation	Podium
23	43	The KTH Guide to Scientific Writing: Sparking a Conversation about Writing	Jane Bottomley , Jamie Rinder and Susanna Zeitler Lyne	CDIO Implementation	Podium
24	47	The Student Flight Data Recorder – Building a Culture of Learning from Failure	Calvin Rans , Julie Teuwen and Helena Momoko Powis	CDIO Implementation	Podium
25	48	The Green Energy Transition - a Case for Lifelong Learning	Jerker Björkqvist , Magnus Hellström, Andrei Morariu and Janne Roslöf	Engineering Education Research	Podium
26	52	Project Seminar – Reconstructing the Capstone Project Process	Liviu Gal, Gabriela Dorfman Furman and Zeev Weissman	CDIO Implementation	Podium
27	54	Experiences on the Creation of a Multi-disciplinary Course in a Metaverse Environment	Elina Kontio , Werner Ravyse, Teppo Saarenpää, Emiliana Pizarro-Lucas, Ignacio Dorado-Díaz, Pedro L. Sanchez, Timo Haavisto and Mika Luimula	CDIO Implementation	Podium
28	55	A Design-implement Experience within Computer Vision	Aldo André Diaz-Salazar and Svante Gunnarsson	CDIO Implementation	Podium
29	56	Online Courses for Teaching Engineering Professionalism	Aseel Berglund	CDIO Implementation	Podium
30	58	Development of Meaningful Lesson Using LXD Methodology for an Engineering Module	Meijun Zhao, Edwin Foo , Flex Tio and Siew Wee Kwek	CDIO Implementation	Podium
31	59	Mechanised Bridges: Development of a Novel, Multidisciplinary, Design and Build Project	Scott Wordley , Michael Crocco , Veronica Halupka and Tony Vo	CDIO Implementation	Podium
32	61	Fusing Programming and Thermodynamics in a First Year Engineering Course	Maria Sigridur Gudjonsdottir	CDIO Implementation	Podium
33	64	Building up the Relevance in Economics Education and Assessing Its Effect	Yu-Chen Kuo	CDIO Implementation	Podium
34	65	VUCA and Resilience in Engineering Education – Lessons Learned	Siegfried Rouvrais , Ann-Kristin Winkens , Carmen Leicht-Scholten , Haraldur Audunsson and Cecile Gerwel Proches	CDIO Implementation	Podium
35	67	Case Study on Integrated Curriculum Using Spiral Curriculum Model for Chemical Engineering	Katerina Yang , Ai Ye Oh, Siew Teng Phua and Yunyi Wong	CDIO Implementation	Podium
36	68	A CDIO Approach to Teach Sustainability in Architecture	Ho Yenn Giin and Leong Yiat Yam	CDIO Implementation	Poster
37	74	Student Reflective Practice as Part of Engineering Programmes	Gareth Thomson and Klara Kovesi	Engineering Education Research	Podium
38	75	Who am I Learning to Become? Integrating Personal Development in Curriculum Design	Nina Bohm , MaartenJan Hoekstra, Leo PJ van den Burg and Milou Reincke	Engineering Education Research	Podium
39	78	Induction Diamond Labs - Giving Everyone an Equal Starting Point	Joanna Bates , Andrew Garrard and Edward Browncross	CDIO Implementation	Podium
40	82	Conceiving, Designing and Implementing the Mechanics Teachers Social Club	Marta Gavioli and Grant Roy Penny	CDIO Implementation	Podium
41	84	Evaluating the Use of ITP Metrics in Supporting Teamwork	Tony Topping , Matt Murphy and Samuel Saunders	CDIO Implementation	Poster
42	85	Enhanced Assessment and Learning through Adaptive Comparative Judgement	Tony Topping , Matt Murphy and Samuel Saunders	CDIO Implementation	Poster



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43	86	An Introductory Reverse Engineering Project to Enhance Teaching Staff and Student Competence	Ahmed Tamkin Butt and Xzara C. Foster	CDIO Implementation	Podium
44	88	Entrepreneurship in Engineering Programs: A Methodology for Systematic Literature Review	Saul Garcia Huertes and Ramon Bragos	Engineering Education Research	Podium
45	89	Correlation Study between the Performance in Different Engineering Courses and Project-based Courses.	Sandra Bermejo , Ramon Bragos , Francesc Rey and Josep Pegueroles	Engineering Education Research	Podium
46	94	Engineering Minor in Architecture, a Model for Interdisciplinary Specialization and Contextual Learning	Reidar Lyng , Anders Ronnquist , Bendik Manum and Simen Dalen Taraldsen	CDIO Implementation	Podium
47	97	Adapting Entrepreneurship Techniques for Creative Technical Course Design	Emily Marasco and Laleh Behjat	CDIO Implementation	Podium
48	98	Integration of Graduate Employability Skills through Industry Outsourced CDIO Project	Soumya Kanti Manna , Nicola Joyce and Anne Nortcliffe	CDIO Implementation	Podium
49	100	Facilitating Staff Implementation of Teamwork Measurement for Engineering-related Project-based Modules	Joo Ghee Lim , Kwee Teck Tan , Safura Anwar and Ser Khoon Toh	CDIO Implementation	Podium
50	101	Case Studies of Integrating Project Based Learning into Polytechnic Engineering Curriculum	Eunice Goh , Siew Wee Kwek , Wei Sin Ang , Kent Loo , Hengky Chang , Chi Mun Cheah , Ying Li and Eunice Chia	CDIO Implementation	Podium
51	102	Designing an Introductory First-year Course for an Electronics Engineering Program	Mario Medina	CDIO Implementation	Podium
52	112	Python in a Week – Conceptual Tests for Learning and Course Development	Christopher Blocker , Thomas Mejtoft and Nina Norgren	CDIO Implementation	Podium
53	117	Promoting Curriculum Agility through Project-Based Learning: Case of the Australian University (Kuwait)	Hassan Salti , Hania Ghazi El-Kanj , Fadi Alkhatib and Mohammed Abdul-Niby	CDIO Implementation	Podium
54	118	Online and Blended Labs for Practical Mechanical Engineering	Christian Stöhr , Veronica Olesen , Shahram Sheikh , Robert Langer , Vladimir Kuts , Margus Mür , Antti Nousiainen , Ari Putkonen , Sakari Koivunen , Yihua Zhang , Jens Kabo , Mikael Enelund and Johan Malmqvist	Engineering Education Research	Podium
55	120	Sustainable Aircraft Design in Engineering Education: Conceive, Design, Implement, and Operate Virtually	Alexander Somerville , Luke Pollock , Keith Joiner , Timothy Lynar and Graham Wild	CDIO Implementation	Podium
56	122	Visualizing Extracurricular Student Teams Learning at TU/e Innovation Space with CDIO Syllabus	Eugenio Bravo Cordova , Ana M. Valencia , Isabelle Reyman and Jan van der Veen	Engineering Education Research	Podium
57	123	Student-centered Learning Activities for Key Sustainability Competencies in Online Courses with Many Students	Johan Berg Pettersen and Ulrika Lundqvist	Engineering Education Research	Podium
58	127	Bringing Reflective Writing to the Engineering Classroom	Marcel Kyas , Joseph Timothy Foley and Markéta Foley	CDIO Implementation	Podium
59	130	Creating and Deploying an Electronic Engineering Master Program Based on CDIO Framework	Binh Dac Ha and Truong Van Truong	CDIO Implementation	Podium
60	137	Practice-based Engineering Design for Next-Generation of Engineers: A CDIO-based Approach	Salman Saeidlou , Nikdokht Ghadiminia , Anne Nortcliffe and Stuart Lambert	CDIO Implementation	Podium
61	138	Framework for the Evaluation of Cybersecurity Curriculum Educational Content	Antti Hakkala , Anne-Maarit Majanoja , Ville Leppänen and Seppo Virtanen	CDIO Implementation	Podium
62	139	Motivation for Continuous Software Engineering Expertise Development through Lifelong Learning	Anne-Maarit Majanoja , Antti Hakkala , Seppo Virtanen and Ville Leppänen	Engineering Education Research	Podium
63	140	Hybrid Education – a Critical Review into Challenges and Opportunities	Anders Adlemo , Amjad Zaki Khalil Al-Musaed , Patrick Conway , Åsa Hansen and Marisol Rico Cortez	Engineering Education Research	Podium



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64	144	Microwave Intervention Simulation Teaching Reform Based on CDIO Engineering Education Model	<i>Qi Dong, Xiang Li, Mingbao Zhang, Dongyang Chu, Tingting Zhao and Dongyang Li</i>	CDIO Implementation	Poster
65	155	Evaluating and Enhancing the Status of Sustainability in Engineering Programs	<i>Anders Rosén, Eva Liedholm Johnson and Joakim Jalden</i>	Advances in CDIO	Podium
66	163	A Challenge Based Learning Community for Hydrogen Development and Application	<i>Hans Gelten, Benno Alderink, Richard van Leeuwen, Mirte Disberg-van Geloven, Stephan Corporaal and Yashar Hajimolana</i>	CDIO Implementation	Poster
67	168	Case-based Learning in Collaboration across Universities to Enhance Students' Understanding of Sustainability	<i>Victor Eriksson, Anne-Maria Holma and Frida Lind</i>	CDIO Implementation	Podium
68	175	Engineering or Computer Science, What Is the Deal?	<i>Asrun Matthiasdottir</i>	Engineering Education Research	Podium
69	177	Lessons Learned from Teaching and Tutoring - Design Thinking for Electrical Engineering Students	<i>Kjell Are Refsvik, Ole Alsos and Torstein Bolstad</i>	Engineering Education Research	Podium
70	179	Teaching Competency Development Framework for SRMIST Faculty Members	<i>Rajeev Sukumaran and Vairavel Gurusamy</i>	CDIO Implementation	Podium
71	180	Engineering Technology Students' Self-Regulation: A Baseline	<i>Shandris Tuytaerts, Tinne De Laet, Lynn Van den Broeck and Greet Langie</i>	Engineering Education Research	Poster
72	181	Lifelong Learning as Explicit Part of Engineering Programmes: A Case Study	<i>Rani Dujardin, Lynn Van den Broeck, Sofie Craps, Greet Langie, Una Beagon, Caitriona De Paor and Aimee Byrne</i>	Engineering Education Research	Podium
73	182	Assessment and Feedback across Various Outcomes in Project Courses: A Department-wide Study	<i>Gabrielle Hansen and Guttorm Sindre</i>	Engineering Education Research	Podium
74	183	Engineering Students' Self-regulation Competencies - the Relationship between Perceptions and Summative Scores	<i>Lynn Van den Broeck, Rani Dujardin and Shandris Tuytaerts</i>	Engineering Education Research	Podium
75	185	Drone Game That Highlights Ethical and Sustainability Implications of Design Decisions	<i>Siara Isaac, Gianni Lodetti, Jessica Dehler Zufferey and Barbara Bruno</i>	CDIO Implementation	Podium
76	187	Student Perspectives on Online Hybrid Learning in an Undergraduate Robotics Course	<i>Erik Kyrkjebo and Martin F. Stoelen</i>	CDIO Implementation	Podium
77	190	Sustainable Systems Engineering Program: Meeting All Needs within Means of the Planet	<i>Robyn Paul, Marjan Eggermont and Emily Marasco</i>	CDIO Implementation	Podium
78	191	Experiences from Implementing a Scholarship of Teaching and Learning Program for Teachers	<i>Hanne Loeje</i>	CDIO Implementation	Podium
79	192	Global Competence Needs: A Comparative Study of Stakeholders' Perspectives on Engineering Education	<i>Tanja Richter, Björn Kjellgren, Elisabet Arnó-Macià and Karen Fleischhauer</i>	Engineering Education Research	Podium
80	200	Enabling Lifelong Learning by Using Multiple Engagement Tools	<i>Donatella Puglisi and Guillem Domenech-Gil</i>	CDIO Implementation	Podium
81	209	Integrating Sustainable Development in a Computer Science Program: A Review	<i>Marcia Muñoz, Claudia Martinez-Araneda and Matilde Basso</i>	Engineering Education Research	Podium
82	210	Innovative Teaching-Learning System: CDIO Initiatives in USTP	<i>Aileen Sieras, Amparo V. Dinagsao, Rojien V. Morcilla and Lloyd Jhon B. Estampa</i>	CDIO Implementation	Podium
83	211	Integrating Sustainability Thinking in Information Systems – Experiences from an Enterprise Architecture Course	<i>Sobah Abbas Petersen</i>	CDIO Implementation	Podium
84	212	Constructivist Principles as Used for Enhancing Active Learning – Case: Engineering Thermodynamics	<i>Nader Ghareeb, Martin Jaeger, Perry R. Hessenauer and Desmond Adair</i>	Engineering Education Research	Podium



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85	213	Engaging Students Oriented towards Usefulness in a Bildung-oriented Engineering Education	<i>Ronny Kjelsberg and Magnus Kahrs</i>	Engineering Education Research	Podium
86	216	The Effects of Learning Environments on Student Active Learning	<i>Pasi Aalto, Ole Alsos, Dag Håkon Haneberg, Martin Steinert, Daniel Ege and Ingrid Berg Sivertsen</i>	Engineering Education Research	Podium