#	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-Diaz, 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 Sheikhi**, Robert Langer, Vladimir Kuts, Margus Müür, 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 Reymen** 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**	*Qi Dong,* **Xiang Li** *,* **Mingbao Zhang** *,* **Dongyang Chu** *, Tingting Zhao and Dongyang Li*	CDIO Implementation	Poster
65	155	**Evaluating and Enhancing the Status of Sustainability in Engineering Programs**	**Anders Rosén** *, Eva Liedholm Johnson and Joakim Jalden*	Advances in CDIO	Podium
66	163	**A Challenge Based Learning Community for Hydrogen Development and Application**	**Hans Gelten** *, Benno Aalderink, Richard van Leeuwen, Mirte Disberg-van Geloven, Stephan Corporaal and Yashar Hajimolana*	CDIO Implementation	Podium
67	168	**Case-based Learning in Collaboration across Universities to Enhance Students' Understanding of Sustainability**	**Victor Eriksson** *, Anne-Maria Holma and Frida Lind*	CDIO Implementation	Podium
68	175	**Engineering or Computer Science, What Is the Deal?**	**Asrun Matthiasdottir**	Engineering Education Research	Podium
69	177	**Lessons Learned from Teaching and Tutoring - Design Thinking for Electrical Engineering Students**	**Kjell Are Refsvik** *,* **Ole Alsos** *and* **Torstein Bolstad**	Engineering Education Research	Podium
70	179	**Teaching Competency Development Framework for SRMIST Faculty Members**	*Rajeev Sukumaran and* **Vairavel Gurusamy**	CDIO Implementation	Podium
71	180	**Engineering Technology Students' Self-Regulation: A Baseline**	**Shandris Tuyaerts** *, Tinne De Laet,* **Lynn Van den Broeck** *and Greet Langie*	Engineering Education Research	Poster
72	181	**Lifelong Learning as Explicit Part of Engineering Programmes: A Case Study**	**Rani Dujardin** *,* **Lynn Van den Broeck** *, Sofie Craps, Greet Langie, Una Beagon, Caitriona De Paor and Aimee Byrne*	Engineering Education Research	Podium
73	182	**Assessment and Feedback across Various Outcomes in Project Courses: A Department-wide Study**	**Gabrielle Hansen** *and* **Guttorm Sindre**	Engineering Education Research	Podium
74	183	**Engineering Students' Self-regulation Competencies - the Relationship between Perceptions and Summative Scores**	**Lynn Van den Broeck** *,* **Rani Dujardin** *and* **Shandris Tuyaerts**	Engineering Education Research	Podium
75	185	**Drone Game That Highlights Ethical and Sustainability Implications of Design Decisions**	**Siara Isaac** *, Gianni Lodetti, Jessica Dehler Zufferey and Barbara Bruno*	CDIO Implementation	Podium
76	187	**Student Perspectives on Online Hybrid Learning in an Undergraduate Robotics Course**	**Erik Kyrkjebo** *and Martin F. Stoelen*	CDIO Implementation	Podium
77	190	**Sustainable Systems Engineering Program: Meeting All Needs within Means of the Planet**	*Robyn Paul, Marjan Eggermont and* **Emily Marasco**	CDIO Implementation	Podium
78	191	**Experiences from Implementing a Scholarship of Teaching and Learning Program for Teachers**	**Hanne Loeje**	CDIO Implementation	Podium
79	192	**Global Competence Needs: A Comparative Study of Stakeholders' Perspectives on Engineering Education**	**Tanja Richter** *, Björn Kjellgren, Elisabet Arnó-Macià and Karen Fleischhauer*	Engineering Education Research	Podium
80	200	**Enabling Lifelong Learning by Using Multiple Engagement Tools**	**Donatella Puglisi** *and* **Guillem Domenech-Gil**	CDIO Implementation	Podium
81	202	**Maximising Academic and Social Outcomes**	**Jorgen Forss** *, Niel Cooke, Sarah Chung and Jesper Andersson*	CDIO Implementation	Poster
82	209	**Integrating Sustainable Development in a Computer Science Program: A Review**	**Marcia Muñoz** *, Claudia Martinez-Araneda and Matilde Basso*	Engineering Education Research	Podium
83	210	**Innovative Teaching-Learning System: CDIO Initiatives in USTP**	**Aileen Sieras** *, Amparo V. Dinagsao, Rojien V. Morcilla and Lloyd Jhon B. Estampa*	CDIO Implementation	Podium
84	211	**Integrating Sustainability Thinking in Information Systems – Experiences from an Enterprise Architecture Course**	**Sobah Abbas Petersen**	CDIO Implementation	Podium

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85	212	**Constructivist Principles as Used for Enhancing Active Learning – Case: Engineering Thermodynamics**	*Nader Ghareeb* , *Martin Jaeger, Perry R. Hessenauer and Desmond Adair*	Engineering Education Research	Podium
86	213	**Engaging Students Oriented towards Usefulness in a Bildung-oriented Engineering Education**	*Ronny Kjelsberg* *and Magnus Kahrs*	Engineering Education Research	Podium
87	216	**The Effects of Learning Environments on Student Active Learning**	*Pasi Aalto*, *Ole Alsos* , *Dag Håkon Haneberg* , *Martin Steinert, Daniel Ege and Ingrig Berg Sivertsen*	Engineering Education Research	Podium