



#	ID	Title	Authors (Bold = Registered participant)	Track	Presentation Format
1	2	Design Thinking for CDIO Curriculum Development	Chong Hwa Lee , <i>Linda Lee and Natha Kuptasthien</i>	CDIO Implementation	Podium
2	3	CDIO Framework and SkillsFuture: Redesign of Chemical Engineering Curriculum after 10 Years of Implementing CDIO	<i>Sin Moh Cheah and Katerina Yang</i>	CDIO Implementation	Poster
3	5	Training the Staff - How to Develop Personal and Interpersonal Competences at Faculty Level	<i>Jane Flarup and Helle Wivel</i>	CDIO Implementation	Podium
4	6	Relevance of CDIO to Industry 4.0 – Proposal for 2 New Standards	<i>Sin Moh Cheah and Helene Leong</i>	Advances in CDIO	Podium
5	8	CDIO-Based Curriculum Development for Non-Engineering Programs at Mass Communication Technology Faculty	<i>Uravis Tangkijiwat, Wanchanok Sunthorn, Natchaphak Meeusah and Natha Kuptasthien</i>	CDIO Implementation	Podium
6	11	Developing Logbook Keeping as a Professional Skill through CDIO Projects	<i>Sarah Junaid, Paul Gorman and Laura Leslie</i>	CDIO Implementation	Podium
7	12	Executive Summary: A PhD Thesis with a CDIO Theme	<i>Kristina Edström</i>	Engineering Education Research	Podium
8	13	Experience in the Development of Bachelor's Program "Chemistry"	<i>Yuliya Petrova, Ekaterina Sevast'yanova, Viktoria Krainik, Dmitry Kuzin, Valeria Bezievskaya, Sergey Kosenok and Alexey Drenin</i>	CDIO Implementation	Poster
9	14	The integration of CDIO Standards in the Application of Project Based Learning as a Hands-on Methodology: An Interdisciplinary Case Study in Production Engineering	<i>Sergio Ricardo Mazini, Sueli Leite, Priscilla Aparecida Vieira Moraes, Márcia Maria Teresa Baptista and Rangel Ferreira do Nascimento</i>	CDIO Implementation	Poster
10	15	A Typology of Engineering Designs in Problem-Based Projects	<i>Samuel Brüning Larsen and Per Bigum</i>	Engineering Education Research	Poster
11	16	The CDIO Framework and New Perspectives on Technological Innovation	<i>Frido Smulders, Aldert Kamp and Clement Fortin</i>	Advances in CDIO	Podium
12	17	Coordinated Design and Implementation of "Bioengineering Design" and "MedTech" Courses By Means of CDIO Projects Linked to Medical Devices	<i>Andres Diaz Lantada, Luis Ignacio Ballesteros Sanchez, Enrique Chacon Tanarro, Ana Moreno Romero, Rafael Borge Garcia, Miguel Angel Pelaez Garcia, Rafael Ramos Diaz and Jesus Juan Ruiz</i>	CDIO Implementation	Podium
13	18	The "UBORA" Design Competition: An International Student Challenge Focused on Innovative Medical Devices Developed using the "CDIO" Methodology	<i>Arti Ahluwalia, Carmelo De Maria, Andres Diaz Lantada, Licia Di Pietro, Alice Ravizza, Mannan Mridha, Philippa Ngaju Makobore, June Madete and Janno Torop</i>	CDIO Implementation	Podium
14	19	The First "UBORA" Design School of Nairobi: A One-Week Intensive and International "CDIO" Experience Centered on Medical Devices	<i>Arti Ahluwalia, Carmelo De Maria, June Madete, Andres Diaz Lantada, Licia Di Pietro, Alice Ravizza, Mannan Mridha, Philippa Ngaju Makobore, Juan Manuel Munoz-Gujosa, Enrique Chacon Tanarro and Janno Torop</i>	CDIO Projects in Progress	Poster
15	20	A Conceive-Design Project in the First Semester of the Engineering Programs at Methodist University of São Paulo	<i>Carlos Eduardo Santi and Svante Gunnarsson</i>	CDIO Projects in Progress	Poster
16	22	Combining CDIO and Case Study Methodologies in Flipped Classroom Strategies	<i>Juan Munoz-Gujosa, Enrique Chacón, Javier Echávarri, Andres Diaz Lantada, Alvaro Guzman Bautista and Jesús De la Peña García De la Tenaza</i>	CDIO Implementation	Podium
17	23	Mapping Architectural Engineering Students' Learning in Group Design Exercises	<i>Geza Fischl, Kaj Granath and Craig Bremner</i>	Engineering Education Research	Podium
18	24	Math for Engineering Students	<i>Hans Peter Christensen</i>	CDIO Implementation	Podium
19	25	Elective Projects Course: Realizing the Academic Interests of Students	<i>Flor A. Bravo, Jairo A. Hurtado, Carlos I. Paez and Ana V. Prados</i>	CDIO Implementation	Podium
20	26	"KIT Physics Navigation" Showing Relationship Between High School and University	<i>Tomoshige Kudo, Keita Nishioka and Akira Nakamura</i>	CDIO Implementation	Poster
21	27	360 Degrees Virtual Tour for Educational Purposes. An Exploratorion on the Design Considerations and Decisions	<i>Danielle S. Ceulemans, Renate G. Klaassen, Merle M. de Kreuk, Jan Douma and Michel J.J. Beerens</i>	CDIO Projects in Progress	Podium
22	30	Experiences on a CDIO Introductory Project Transfer to a New Teacher	<i>Katriina Schrey-Niemenmaa and Antti Piironen</i>	CDIO Implementation	Poster



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23	31	Integrating Sustainability in Academic CDIO Subjects: A Review after Three Years of Experience	Angel Uruburu , Ana Moreno-Romero, Ruth Carrasco-Gallego, Rafael Borge, Julio Lumbreras and Rafael Miñano	CDIO Implementation	Podium
24	32	Elements of CDIO in Graduation Research Project under University-Industry Collaboration	Shinichi Miyazato and Takahiro Doi	CDIO Projects in Progress	Podium
25	33	Product, Process & System Building Skills Education by Constructing a Citizen Support System	Mikiko Sode Tanaka and Takao Ito	CDIO Implementation	Podium
26	34	Interactive Teaching in Interpersonal Skills as Innovation in Engineering Education	Jørgen Erik Christensen , Markku Karhu, Cecilia Christensen and Jonita Martelius	CDIO Implementation	Podium
27	35	The Educational Influences of Project Design Education on Students' Learning Abilities	Hung Nguyen-Xuan , Keiichi Sato , Long Dam-Duy and Viet Nguyen-Xuan-Hoang	CDIO Implementation	Podium
28	36	Waterfall vs. Agile Project Management Methods in University-Industry Collaboration Projects	Marika Säisä , Katariina Tiura and Janne Roslöf	CDIO Implementation	Podium
29	37	Engineering Education Paradigm Shift in Metropolia UAS	Jukka Jonninen, Antti Piironen and Heikki Valmu	CDIO Implementation	Podium
30	38	Integrated Learning for Female Students in Electrical and Electronic Engineering	Tomomi Tanioka	CDIO Projects in Progress	Podium
31	39	Pedagogical Results: Joint Entrepreneurship Course in Engineering and Business School	Aderson Campos Passos, Edson Kenji Kondo , Waldemar Barroso Magno Neto and Carla Danielle Monteiro Soares	CDIO Implementation	Poster
32	40	Developing e-Learning Material for Physics Laboratory Education	Patric Granholm and Hiromasa Ohnishi	CDIO Projects in Progress	Poster
33	41	Involving Stakeholders in CDIO Projects	Jacob Nordfalk, Ian Bridgwood , and Mads Nyborg	CDIO Implementation	Podium
34	42	Book-App as Course Literature in CDIO-Based Project Courses - Students' Perspectives	Erik Hulthén and Panagiota Papadopoulou	CDIO Implementation	Poster
35	43	Balancing Online and Face-to-Face Teaching and Learning Activities	Emiel van Puffelen , Melanie van Berkum and Julia Diederer	CDIO Implementation	Podium
36	44	Faculty Experiences in Interdisciplinary Programs: Opportunities and Challenges	Åsa Gustafsson and Mirka Kans	Engineering Education Research	Podium
37	45	Building STEM Education Framework Through Networking Collaboration	Aleksandr Arnautov , Natalia Gafurova, Yaroslav Fadeev and Viktor Dyomin	CDIO Implementation	Podium
38	46	Engineering Students Ready for a VUCA World? A Design Based Research on Decisionship	Siegfried Rouvrais , Sophie Gaultier Lebris and Matthew Stewart	Engineering Education Research	Podium
39	47	A New Method for Manufacturing Engineering Projects	John Clausen	CDIO Implementation	Podium
40	48	On the Importance of Peer Instruction in Group Design Projects	Nikola Chalashkanov , Avinash Bhangaonkar and Rob Thornton	CDIO Implementation	Podium
41	49	A Design-Based Vision on Future Roles in Engineering	Renate Klaassen , Matthijs van Dijk , Roald Hoope, Danielle Ceulemans , Aldert Kamp , Martin Jacobs and Maarten van der Sanden	Engineering Education Research	Podium
42	51	The Application of CDIO Standards to Clinical Engineering Education	Yoshiyuki Shimizu , Simon Thollar , Yuichi Anada and Naohiko Hayata	CDIO Implementation	Poster
43	52	Card Model Implementation at TDMU Aligned with CDIO Standard 8	Tham Vo Thi Hong and Anh Phan Nguyen Quynh	CDIO Implementation	Podium
44	53	A Systemic Approach in an Electronics Engineering Curriculum	Alejandra Gonzalez , Diego Patino , Luisa Garcia and Lizeth Roldan	CDIO Implementation	Podium



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45	54	Applying Kaizen in a Project-based Learning Environment	<i>Katariina Tiura and Marika Säisä</i>	CDIO Implementation	Podium
46	55	CDIO Based Curriculum Design and Development of Undergraduate Program	<i>Norinpel Erdenekhuu, Khishigjargal Gonchigsumlaa, Uranchimeg Tungalag and Uuganbayar Purevdorj</i>	CDIO Projects in Progress	Poster
47	57	Assessment Experience on Program Learning Outcomes	<i>Norinpel Erdenekhuu, Ganbold Shagdar and Uranchimeg Tungalag</i>	CDIO Projects in Progress	Poster
48	58	Video Development Methods for CDIO-Based Project Courses	<i>Panagiota Papadopoulou, Kanishk Bhadani, Christian Stöhr, Erik Hulthén, Magnus Evertsson and Johan Malmqvist</i>	CDIO Implementation	Podium
49	59	Fostering Engineering Thinking through Intelligent Electronic Production Program at NIT Sendai College	<i>Kazutaka Baba, Fujiki Nahomi, Tadayuki Hayashi, Yasuhiro Kashiwaba, Koji Kawasaki, Senshi Nasu, Mio Sakuma, Shigeyuki Seki, Jun Sonoda, Takatoshi Suenaga, Testuya Oozumi and Takahiro Yonamine</i>	CDIO Implementation	Poster
50	60	AI Assisted Advising for Growth of University Students	<i>Takayuki Fukuda, Toshiaki Izumiya, Shinji Takashima, Shoji Takechi and Akane Araki</i>	CDIO Implementation	Podium
51	61	Student Perspectives on Interdisciplinarity - Findings from an Interdisciplinary Two-year Master Program	<i>Mirka Kans and Åsa Gustafsson</i>	CDIO Projects in Progress	Podium
52	63	Practice and Evaluation of Statistics an Introductory Lecture on Peer Instruction	<i>Tetsuya Taniguchi, Tomoshige Kudo, Hidetaka Yamaoka and Makoto Nishi</i>	CDIO Implementation	Poster
53	64	Project Process Management in a Student-Driven Learning Environment	<i>Sanna Määttä, Janne Roslöf and Marika Säisä</i>	CDIO Implementation	Podium
54	65	Implementation of Mutually Supporting Courses and Project-Oriented Learning in "Software Engineering" Bachelor's Program	<i>Dmitrii Kuzin, Andrei Zapevalov, Inna Shukurova, Valeriya Bezuevskaya and Sergei Kosenok</i>	CDIO Projects in Progress	Poster
55	66	Report on Active Calculus Course Introduced the Peer Instruction	<i>Hidetaka Yamaoka, Makoto Nishi, Tomoshige Kudo and Tetsuya Taniguchi</i>	CDIO Projects in Progress	Poster
56	67	Student-Centered Learning in CDIO Framework	<i>Antti Piironen, Ann Padley and Kaisla Saastamoinen</i>	CDIO Implementation	Podium
57	70	Co-Creative Education beyond Cultures at Kanazawa Institute of Technology	<i>Tomohito Yamamoto, Minoru Nakazawa and Masako Osuna</i>	CDIO Implementation	Podium
58	74	Research on Curriculum Design of Three-in-One Scientific Writing Based on CDIO	<i>Wenxing Xu, Wengang Ji, Bo Dai, Cai Liu and Qianwen Zhang</i>	CDIO Projects in Progress	Poster
59	75	The Initial Experience of Educational Programs' Modernization within the CDIO Concept in Surgut State University	<i>Andrei Zapevalov, Elena Pauk, Larisa Zapevalova, Dmitrii Kuzin and Valeriya Bezuevskaya</i>	CDIO Projects in Progress	Poster
60	76	Challenging Engineering Students With Uncertainty in a VUCA Situation	<i>Haraldur Audunsson, Thordur Vikingur Fridgeirsson and Ingunn Saemundsdottir</i>	CDIO Implementation	Podium
61	77	Aircraft Engineering, an Interdisciplinary Minor Module	<i>André de Boer and Lisa Gommer</i>	CDIO Learning Objects	Podium
62	79	Improving Engineering Drawing Skills through Concrete Learning and Mindset Theory	<i>Paul Warrington and Sarah Junaid</i>	CDIO Projects in Progress	Podium
63	80	Structural Equation Modelling of Cognitive Loading in the CDIO Pedagogical Approach	<i>Ephraim Zulu and Theodore Haupt</i>	CDIO Projects in Progress	Podium
64	81	Visualizing 17 years of CDIO influence via Bibliometric Data Analysis	<i>Alexandra Meikleham, Ron Hugo, Aldert Kamp and Johan Malmqvist</i>	Advances in CDIO	Podium
65	82	Fluid Mechanics Project-Based Learning Kits: An Analysis of Implementation Results in a Blended Classroom	<i>Alexandra Meikleham, Ron Hugo and Robert Brennan</i>	Engineering Education Research	Podium
66	83	Blended and Project-Based Learning: The Good, the Bad, and the Ugly	<i>Alexandra Meikleham, Ron Hugo and Robert Brennan</i>	CDIO Implementation	Podium



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67	84	Adapting the CDIO Framework to Biomedicine Education	Anna Fahlgren , Annika Thorsell, Katarina Kågedahl, Mats Lindahl and Svante Gunnarsson	CDIO Projects in Progress	Poster
68	86	Gender Differences in Engineering Students' Choice of Studies	Asrun Matthiasdottir	Engineering Education Research	Podium
69	88	Faculty Development in the Implementation of CDIO Concept at SibFU	Svetlana Osipova and Olga Shubkina	CDIO Projects in Progress	Poster
70	91	The Improvement of Faculty Competence and Collaboration Between Academia and Industry: A Case Study in the Engineering Courses of a Brazilian University Center	Sergio Ricardo Mazini , Wesley Pontes, Pedro Sergio Hortolani Rodrigues and Lucas Mendes Scarpin	CDIO Implementation	Poster
71	92	A Case Study Designing Training Curricula to Support Implementation of CDIO	Andrew Marchand , Gam Thi Hong Luong and Tham Thi Hong Vo	CDIO Implementation	Podium
72	94	From Group to Independent Project Work: Does CDIO Prepare Learners?	Laura Leslie , Paul C Gorman and Sarah Junaid	CDIO Implementation	Poster
73	98	Implementing a Collaborative ICT Workshop between two Universities in Japan and Thailand	Yuichi Anada , Naohiko Hayata, Simon Thollar , Mitsutaka Yasuda, Eiji Shimada, Joel Rian, Kenji Saito, Mitsuyoshi Nagao, Tsukasa Hokimoto, Natha Kuptasthien , Uravis Tangkijviwat , Deachrut Jaithavil, Waiyawut Wuthiasthasam and Ponanon Nilapreuk	CDIO Implementation	Poster
74	99	A Framework for Second Language, Communication and Engineering Learning Outcomes	Avinda Weerakoon and Nathan Dunbar	CDIO Implementation	Podium
75	101	An Engineering Workspace for Integrating Sustainability Applied Research into Learning	Siaw Soon Chee, Eunice Goh, Hannah Gardner, Yadong Wang, Leonard Loh and Keng Wah Choo	CDIO Implementation	Podium
76	102	The Design and Development Process of Creative Products Using a Microcomputer	Seiichi Watanabe , Masuo Furukawa and Takashi Kasuga	CDIO Projects in Progress	Poster
77	103	Engineering Education: Are Efforts in SoTL Reaching the Engineering Classroom?	Nancy Nelson and Robert Brennan	Engineering Education Research	Podium
78	105	Searching for Symbiosis: Opportunities and Obstacles in Formula SAE Team/School Administration Relationships	Michael L.W. Jones	CDIO Implementation	Podium
79	108	An Integrated Professional Practice and Employability Initiative in an Engineering Undergraduate Programme	Simon Howell , Geoffrey Tansley, Graham Jenkins and Wayne Hall	CDIO Implementation	Podium
80	112	KIT Hackathon that Facilitate Innovation at Regional Area	Minoru Nakazawa , Takayuki Fukuda and Noriko Nishikawa	CDIO Projects in Progress	Poster
81	113	A Practical Application of Business System in enPiT2	Satoru Myojin , Masahiro Sakai, Naohiko Hayata , Mitsutaka Yasuda, Takeshi Tanigawa, Kei Ito and Michiko Oba	CDIO Implementation	Poster
82	114	The Evaluation Method of Ability Achievement Levels in a CDIO Syllabus	Hua Shen, Fei Gao, Long Liu , Eman Ju and Xue Han	CDIO Implementation	Podium
83	115	CDIO Contribution to ABET Accreditation of Electrical and Electronic Engineering Programs	Truong V Truong, Binh D Ha and Bao N Le	CDIO Projects in Progress	Poster
84	116	Turning Programming into a Relevant Topic for Non-Programming Engineers	Erik Berglund and Dennis Persson	CDIO Implementation	Podium
85	117	Collaboration between Duy Tan University and High Schools: A Report on the Support Process for High School Science and Engineering Fair	Dong L.T. Tran, Bao N Le , Duong Vu and Tan Tran	CDIO Implementation	Podium
86	119	Integration of CDIO Standards to Enhance Students' Entrepreneurial Skills and Knowledge	Duong Vu, Sy N Dang and Bao N Le	CDIO Implementation	Podium
87	123	The Effect and Evaluation of Active Learning and Creative Teaching in Micro-Credit Course Modules	ShuHui Chen , Ben-ray Jai and Wei-Chieh Hsu	CDIO Projects in Progress	Poster
88	124	Applying of Project Design (PD) Education Methodology for Teaching of the Architectural Academic Subjects	An Le Vinh and Thanh Vu Cong	CDIO Projects in Progress	Poster



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89	126	The Development of Technical Staff Competencies via International Exchange	Gareth Thomson and Lisa Gommer	CDIO Projects in Progress	Podium
90	127	Professionalism for Engineers: Soft Skills in Engineering Education to Prepare for Professional Life	Aseel Berglund	CDIO Implementation	Podium
91	128	Implementing CDIO Approach in Integrated Digital Environment	Santosh Maurya and Olivier Ammoun	CDIO Projects in Progress	Poster
92	129	A Case Study of Integrated Multidisciplinary Project-Based Learning in Polytechnic Education	Vinayak Prabhu , Peter Lim , Siew Wee Kwek and Hannah Gardner	CDIO Implementation	Podium
93	136	Active Learning in Redesigning Mathematics Courses for Engineering Students	Annoesjka Cabo and Renate Klaassen	CDIO Implementation	Podium
94	137	Experience of Developing Students' CDIO Skills Using Design Built Projects	Tserenlkham Batdorj , Nyamsuren Purevsuren , Uuganbayar Purevdorj , Uranchimeg Tungalag and Khishigjargal Gonchigsumlaa	CDIO Projects in Progress	Podium
95	140	Practical Education in Automation for Industrie 4.0	Helmut Wenisch , Osamu Ito and Roland Scheuerer	CDIO Projects in Progress	Poster
96	142	CDIO Implementation in the ICT Engineering Curriculum – Semester Projects	Tauno Tepsa , Maisa Mielikäinen and Juhani Angelva	CDIO Implementation	Podium
97	145	To Incorporate CDIO into Social Innovation and Entrepreneurship Participation Project	Yao Chuan Lee , Wei Chieh Hsu , Chun Wen Teng , Bing Jean Lee , Ju Chuan Wu and Vey Wang	CDIO Projects in Progress	Poster
98	146	CDIO Based Preliminary Engineering Design Course in Chemical Engineering	Wei Zhang , Cuiqing Li , Jinchang Sun , Yongji Song , Guangxiang He and Zhansheng Han	CDIO Projects in Progress	Poster
99	148	CDIO Implementation Using 24/7 Working Spaces	Eduardo A. Gerlein , Jairo A. Hurtado and Juan M. Cruz	CDIO Implementation	Poster
100	149	The Pedagogical Developers Initiative – Sustainable Impact or Falling into Oblivion?	Björn Kjellgren , Hans Havtun , Lasse Wingård , Magnus Andersson , Björn Hedin , Niclas Hjelm and Anders Berglund	CDIO Implementation	Podium
101	151	Add-on Certificate in Global Competence: A Pragmatic Answer to a Challenging Question	Björn Kjellgren , Elizabeth Keller and Yoko Takau-Drobin	CDIO Implementation	Podium
102	153	Teaching Computer Programming Using Gamification	Peng Shorn Siew	CDIO Implementation	Podium
103	155	Lessons Learned from Student Satisfaction Surveys of CDIO Project Courses	Johan Malmqvist , Lars Almfelt , Mattias Bingerud and Mikael Enelund	Engineering Education Research	Podium
104	156	Development of the Digital Systems Unit in an Electronics Engineering CDIO Curriculum	Alejandra Gonzalez , Diego Mendez and Luisa Garcia	CDIO Projects in Progress	Podium
105	159	The Curriculum Development to Accommodate Diverse Student Images by Incorporating CDIO Ideas	Naohiko Hayata , Shigeru Mukaida , Takanori Yamakita , Tohru Hirohku , Hajime Saito , Keitaro Oshima , Takayuki Fujiwara and Masayuki Fukumitsu	CDIO Projects in Progress	Poster
106	165	Developing Staff for Effective CDIO Implementation	Gareth Thomson and Robin Clark	CDIO Implementation	Podium
107	170	Flipped Classroom in the UCSC School of Engineering: Enhancing In-Class Time	Claudia Martinez , Marcia Muñoz , Matilde Basso and Claudio Oyarzo	CDIO Implementation	Podium
108	174	Curriculum Adaptation in Eras of Transformation by Utilizing a CDIO Enabling Platform	Peter Hallberg	CDIO Projects in Progress	Poster
109	177	Using Videos and Digital Learning as Lab Preparation	Thomas Greve	CDIO Projects in Progress	Poster
110	178	The Impact of Implementing One Programme-Wide Integrated Assessment Method	Suzanne Hallenga-Brink , Wianda Visser and Miranda de Hei	CDIO Implementation	Podium



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112	182	Learning Advanced Mathematics by Acoustics – Yes we can!	<i>Leif Kari and Anna-Karin Högfeldt</i>	CDIO Projects in Progress	Poster
113	183	Student Success: On the Need for a New Standard	<i>Alejandra Gonzalez, David Barrera, María Patricia León, Mariela Curiel and Luis David Prieto</i>	Advances in CDIO	Podium
114	191	Development and Implementation of the CDIO Approach in Kuban State Technological University	<i>Alexander Chuchalin, Tatyana Barkhatova and Svetlana Kalmanovich</i>	CDIO Implementation	Podium