

29 February 2024

Meeting notes compiled by Johan Malmqvist, Juha Kontio and Helene Leong

Participants: see Appendix A

NOTES

1. *Activity plan 2024 – final version (Juha Kontio & Helene Leong)*

- The activity plan 2024 was sent out for a final review. No comments were submitted.
- The plan is thus finalized, see headline version below.
- The full version is attached in Appendix B.

CDIO as Framework, Community – related activities
<ul style="list-style-type: none"> • Standards of the future • Introductory/refresh workshops and sessions for newcomers • Conference and events development • CDIO Website and social media presence • CDIO value proposition • CDIO Newsletter

On-going activities in CDIO
<ul style="list-style-type: none"> • Continuous curriculum development and pedagogical innovation in engineering education – Curriculum Agility • CDIO Technician Network • Peer-to-peer support

2. *CDIO Newsletter launched*

- The first newsletter was distributed on 28 February 2024.
- The next issue will appear in September.

3. *Update on 20th CDIO International Conference 2024 (Lamjed Bettaeib, Johan Malmqvist)*

- Submission overview:

○ Abstract submission	206
○ Full paper submission	161
○ Full paper accepted/conditionally accepted	138
○ Accepted as-is	6
○ Accepted with minor revisions	106
○ Accepted with major revisions	26
○ Rejected	23
- Next steps

○ Notification of acceptance	7 March
○ Final submissions	7 April
- A draft conference programme has been published, see <https://cdio.esprit.tn/program>

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- Detailed distribution of submissions and acceptance decisions:

	EER	Advances in CDIO	CDIO implementation	PIP	Workshop	Round table	Working group	
Total number of submitted papers (after track change)	25	2	60	39	14	16	5	
Accepted <u>with minor revisions</u>	9	1	47	27	3	15	4	
Accepted <u>with major revisions</u>	4	1	8	11	1	0	1	
Rejected	12	0	5	1	4	1	0	
AAI	0	0	0	0	6	0	0	

4. Activity on Advancing the role of technicians within CDIO programmes (Tony Topping & Mark Nivan)

- Mark Nivan Singh and Tony Topping started with a recap of the current work to improve collaboration between CDIO technicians from different institutes as well as identifying and improving competencies specific to CDIO technicians.
- This discussion aimed to explore how we could broaden our focus beyond the enhancement of technician-to-technician collaborations to include a more holistic exploration of how this group interacts with the wider CDIO initiative.
- A new working group has been set up to work together before and during the summer conference in Tunis. These discussions were an opportunity to seek a wider range of views on this topic from leaders in all regions, with inputs informing the direction of the working group.
- The two main discussion points were: “How can we advance the identity of technicians in CDIO?” and “How should engage the workgroup at the CDIO International Conference?”
- Attached to this is a pdf export of the Padlet used to capture the discussions.

5. Any other business

- Next meeting 25 March at 1400 CET / 1300 UTC

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Appendix A: Participants list

Juha Kontio
Principal Ramco Inst. of Technology (Guest)
Rajeev Sukumaran, SRMIST, India
Dr. Christhu Raj - Head DLD, SRMIST
Johan Malmqvist
Mark Nivan SINGH (SP)
Dr. Mohammed Abdul-Niby
Rajeev Sukumaran, SRMIST, India
Suzanne Brink
Angelo Martins
Murphy, Matt
Topping, Anthony
Lamjed Bettaieb
Helene LEONG (SP)
Fredrik Byström
Dr.Hassan Salti
Gareth Thomson
Thomas Baker
IGNAT Sorin
Tina Rosales
Rajakarunakaran
Marisol Rico Cortez
Paul Hermon
Mette Mo Jakobsen
Albert Fabregat (URV)
Sami Ammar
Joie Cataytay
Jon Isaacs
Joie Cataytay (USEP)
Кожевников Александр Вячеславович
Vairavel Gurusamy

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Appendix B: Activity plan

CDIO ACTIVITY PLAN 2024

(version: February 18, 2024)

CDIO as Framework, Community – related activities

ID	Activity	Description	Group of actors	Status 11.11.2023	Next steps
C1	Standards of the future	CDIO standards and optional standards are key resources of CDIO framework. This activity will work on the overall standards composition and focus.	<ul style="list-style-type: none"> • Juha Kontio, Turku UAS, • Reidar Lyng, NTNU, • Anne Nortcliffe, Canterbury Christ Church University • Suzanne Brink, Umeå University 	Not started as such; contributing activities going on such as Curriculum agility.	Organize a workshop at Tunis 2024 conference
C2	Introductory/refresh workshops and sessions for newcomers	During the last years the introductory workshops and sessions have varied a lot. There has been a standard plan what we want to provide as introductory. This activity will create a proposal of standard structure and content.	<ul style="list-style-type: none"> • Matt Murphy, Liverpool University, • Helene Leong, Singapore Polytechnic, • Mari Ketola, Turku UAS, • Reidar Lyng, NTNU, • Svante Gunnarsson, Linköping University, • Sin Moh Cheah, Singapore Polytechnic • Suzanne Brink, Umeå University 	<p>First meeting held in Trondheim; work continued in Aarhus.</p> <p>First run with new introductory materials and format at Melbourne 2025 conference.</p>	<p>Preliminary ideas drafted will be introduced at the leaders meeting on 23.11.2023.</p> <p>Organize a Working group at Tunis 2024 conference</p>
C3	Conference and events development	We have a general handbook for CDIO events. In addition, we need a group to discuss about the conference & events format and idea altogether. How to keep it CDIO like and sustainable? How to make sure whole community have possibilities to contribute? Define basic composition of the organizing committee for CDIO conference.	<ul style="list-style-type: none"> • Helene Leong, Singapore Polytechnic, • Juha Kontio, Turku UAS, • Kristina Edström, KTH, • Anthony Topping, Liverpool University, • Mark Nivan, Singapore Polytechnic 	<p>The task focus was widened from conference to include all events.</p> <p>The conference organizing committee basic compositions has been decided and experienced CDIO members nominated.</p>	<p>Round table will be organized at Tunis 2024 conference.</p> <p>Future collaboration formats –workshop at Regional meeting in KTH 2024</p>
C4	CDIO Website and social media presence	The CDIO website is one key information channel for CDIO community. This activity will check the website content and identify needs for updates and possible additions. Furthermore, discussion and plan for better social media presence should	<ul style="list-style-type: none"> • Juha Kontio, Turku UAS, • Johan Malmqvist, Chalmers, • Fredrik Byström, Chalmers, • Anne Nortcliffe, Canterbury Christ Church University, 	Aarhus workshop identified 106 items to correct/check at the CDIO Website. Goal is to have these ready 31.12.2023.	<p>Group of actors meet at the regional meeting in KTH in January.</p> <p>CDIO office will send out a</p>
		be prepared. Activity planned for international working meeting at Aarhus (2023).	<ul style="list-style-type: none"> • Possible some media expert from the CDIO collaborators 	Need for a smaller working group was recognized.	request to all members schools to check and update their information in their page at the CDIO website
C5	CDIO value proposition	The key value of CDIO is quite clear to active CDIO collaborators. However, as a community we can brighten that message. Valuable input has been already collected at our CDIO value proposition workshops and roundtables.	<ul style="list-style-type: none"> • Helene Leong, Singapore Polytechnic, • Juha Kontio, Turku UAS 	Input from several workshops and round tables exists.	<p>A paper by co-directors summarizing the input will be submitted to Tunis 2024 conference.</p> <p>Key message to be updated after that to CDIO website too.</p>
C6	CDIO Newsletter	We could increase community wide communication with a regular newsletter. At the beginning the newsletter could be published two times per year (in February and in September).	<ul style="list-style-type: none"> • Helene Leong, Singapore Polytechnic, • Juha Kontio, Turku UAS 	Activity proposed at Aarhus meeting.	Plan the content for the first newsletter 02/2024.

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On-going activities in CDIO

ID	Activity	Description	Lead actors	Status 11.11.2023	Next steps
O1	Peer-to-peer support	<p>What?</p> <ul style="list-style-type: none"> - A continual development learning process between two (or more) CDIO members at program/department level - One distinctive activity for CDIO members to benefit from - A structured process including self-evaluation, exchange of CDIO practices and in-person/virtual visits - Suitable for all CDIO members from new to more experienced <p>Why?</p> <ul style="list-style-type: none"> - Build up a history of evidence about the positive impact of CDIO on the quality of engineering education and its graduates (published papers, reports to Knowledge library + template) - Identify regional or global trends that give guidance to the advancement of the CDIO Initiative (regular action point to council; add this to CDIO activity plan) - Learn and share together with other CDIO university/program 	<p>Juha Kontio, Turku University of Applied Sciences Sin Moh Cheah, Singapore Polytechnic Paul Hermon, Queens University Belfast Jo Verhaevert, Ghent University</p>	<p>The peer-to-peer support workshop has been used in several CDIO meetings so far and we have some new feedback on how to improve it.</p> <p>The pilot pairs are working. SP & Batangas progressing nicely; Ghent & Queens a bit slower.</p> <p>Several initial pairings exist based on Trondheim, UK&Ireland and Asian meetings.</p>	<p>Juha and Paul will run a modified workshop at regional meeting at KTH in January.</p> <p>Organize a planning meeting for the next workshop (Juha).</p> <p>Sin Moh and Jo submit a proposal to Tunis 2024 conference.</p>
O2	Continuous curriculum development and pedagogical innovation in engineering education – Curriculum Agility	<p>What? <i>Curriculum Agility is to be responsive to changes in societal, industrial, and students' characteristics and needs, by proactively adapting relevant organisational structures and relevant curriculum elements in a timely manner.</i> Ten principles have been formulated that can increase the curriculum agility of engineering programmes.</p> <p>Why? Due to these continuous and fast changes in the context, curriculum changes are needed more often and shortly after each other. This leads to a perpetual-prototyping of new or adjusted curriculum designs. At the same time the complexity of the curriculum change process increases as more stakeholders within and outside the university are involved, or should be in order to fulfil all the</p>	<p>Suzanne Brink, Umeå University Carl Johan Carlsson, Chalmers University Elizabeth Keller, KTH Charlie McCartan, Queen's University Belfast Reidar Lyng, NTNU Mikael Enelund, Chalmers Remon Rooij, TU Delft Sonia M. Gomez Puente, TU Eindhoven, Liisa Lehtinen, Turku UAS Kristel Aalbers, TU Delft,</p>	<p>In ten co-creational sessions since 2018, including 3 working group days, at the CDIO conferences and regional meetings, the Curriculum Agility concept and model with principles, has been developed.</p> <p>The self-assessment/self-mapping method is under development.</p>	<p>A workshop will be run about doing a quick-scan on Curriculum Agility, using the CDIO rubric scores 0-5, at the regional meeting at KTH in January.</p> <p>A paper will be presented at the Tunis 2024 conference (if accepted) on the pilot done in 2023 of using the self-mapping method at 5 different universities,</p>

		<p>different needs and demands on the curriculum. But all those involved need pedagogic development themselves to be able to value, judge and decide on change initiatives. Therefore the principles of curriculum agility suggest an integrated, co-creational approach.</p>			<p>resulting in adjustments to the self-mapping method.</p> <p>A workshop will be held at the Tunis 2024 conference for participants to do the quick-scan as well (if accepted), for participants who don't know what CA is exactly, but are curious to see if it's something they would want to work with at their university.</p> <p>Before Melbourne 2025, we expect to propose the definite optional standard of CA to the CDIO council, and hopefully present it at the conference to all.</p>
O3	CDIO Technician Network	<p>The overarching aim is to improve faculty- technician partnerships in the design and delivery of learning activities. The goals is</p> <ul style="list-style-type: none"> - to create & activate a network of technical staff involved in CDIO activities at their institution - to devise and implement systems to enable technicians to share and develop best practice and resources <p>A long-term goal is for a Technician-led network that collaborates between meetings, and that makes regular contribution to international and regional meetings.</p>	<p>Tony Topping, Liverpool University Mark Nivan, Singapore Polytechnic</p>	<p>Several workshops run both UK and Singapore.</p> <p>Competence framework for Technicians teaching and learning skillsets developed.</p> <p>Training roadmap for Technicians developed.</p>	<p>Preliminary ideas drafted will be introduced/worked on at the leaders meeting on 29.2.2024.</p> <p>Organize a workshop at Tunis 2024 conference.</p> <p>Track for technician at CDIO meetings/events.</p>

POSTPONED

ID	Activity	Description	Lead actors	Status 11.11.2023	Next steps
N1	Student involvement and collaboration in CDIO	<p>CDIO Academy has been one attempt to involve students in CDIO, but there are much more opportunities to involve and increase student collaboration in CDIO community.</p>	To be decided		