

28.2.2024

Newsletter 1/2024

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CDIO OFFICE UPDATE

The CDIO Office would like to thank Kate Larsson (kate.larsson@chalmers.se) for her support as the CDIO Office Coordinator and wish her all the best in her upcoming retirement. For future contact with the CDIO Office, please email Fredrik Byström via info@cdio.org.

CDIO WEBSITE

Following the International Working Meeting in Aarhus, the CDIO Office has received feedback and has been working on improving the content of the website. Furthermore, CDIO Office has initiated a large project to upgrade and update the back-end of the website to a newer version. After the update process' completion in a few months' time, CDIO office will continue to improve the website both in terms of content and architecture.

The CDIO Office asks long-time users to log in and update the information on their profile pages. To do this, press "Login" at the top left of the website screen, log in, and then press "Edit" on your account page (if you are unable to log in please contact info@cdio.org). If any information on your school page is out of date or missing (for example a new primary contact or a missing school logo), please contact info@cdio.org and the CDIO Office will sort it out. You can find your school page under "Participation" -> "Member Schools"

A banner image for the CDIO website. It features a collage of images: a modern server room with rows of server racks, a white domed building with a palm tree in the foreground, and a blue-tinted architectural rendering of a building. The CDIO logo is in the top left, and navigation links like "About", "Implement", "Participate", and "Conceive" are visible in the top right. The text "The 20th International CDIO Conference, ESPRIT Tunisia" is overlaid on the image. Below the image, there is a "Welcome to CDIO!" section with a paragraph of text and social media icons for Facebook, LinkedIn, and YouTube.

cdio
CONCEIVE DESIGN IMPLEMENT OPERATE™

About
About CDIO

Implement
Implementing CDIO

Participate
Participation

Conceive

The 20th International CDIO Conference, ESPRIT Tunisia

Welcome to CDIO!

The CDIO™ INITIATIVE is an innovative educational framework for producing the next generation of engineers. The framework provides students with an education stressing engineering fundamentals set in the context of Conceiving – Designing – Implementing – Operating (CDIO) real-world systems and products. Throughout the world, CDIO Initiative collaborators have adopted CDIO as the framework of their curricular planning and outcome-based assessment. CDIO collaborators recognize that an engineering education is acquired over a long period and in a variety of institutions, and that educators in all parts of this spectrum can learn from practice elsewhere. The CDIO network therefore welcomes members in a diverse range of institutions ranging from research-led internationally acclaimed universities to local colleges dedicated to providing students with their initial grounding in engineering.

Join our mailing list to receive updates on...

Facebook LinkedIn YouTube

HIGHLIGHTS FROM THE CDIO ASIA REGIONAL MEETING (ARM)

The 2023 CDIO ARM was held on October 9 to 11, 2023; and hosted by Bulacan State University (BuSU) from the Philippines. It was attended by 99 participants from 25 institutions from 9 economies, namely Indonesia, Vietnam, Taiwan, Singapore, India, Thailand, Tunisia, Japan and of course the Philippines. A range of activities were held, including the co-leaders' election, presentations to join CDIO community, presentation to host CDIO ARM 2025, and various workshops and sharing sessions. The event ended on a high note with enthralling performances by BuSU students and a video compilation reminiscence of the 3-day event.



Above: Keynote Speech by Dr. Tirso A. Ronquillo, *President, Philippine Association of State Universities & Colleges (PASUC)*



Above: Entertaining presentation by Hokkaido Information university for ARM 2025 in Japan



Above: Discussion Forum on improvements for Introductory CDIO Workshop



Above: Student performers from BuSU

Check the highlight of the meeting from

<https://drive.google.com/file/d/1ao201hZ671rHJJJaDlz59pTCJbgXRZpj8/view?usp=drivesdx>

HIGHLIGHTS FROM THE CDIO REGIONAL MEETING IN STOCKHOLM

Snow and ice covered the KTH campus when about 80 participants gathered for a regional meeting on 8-10 January. It was a combined meeting for the Europe and UK-Ireland regions.

Keynote speakers were

- Virginia Grande – Engineering Educators as (Un)aware Role Models
- Elina Eriksson – How Academics Reason About Air Travel
- Björn Hedin – Seeing Academic Flying and Feeling Food Carbon Footprint
- Anders Rosén and Ola Leifler – How can CDIO promote - and prevent - transformations towards a sustainable society?



Among the parallel sessions were workshops and roundtables. Some keynote speakers gave workshops where participants could go deeper into the topic. Other workshops addressed well established topics such as Curriculum agility, and Peer to peer support processes. A workshop on Future collaboration formats addressed how the collaboration formats of the CDIO community can be made more sustainable. Introductory workshops were also held for new collaborators and new people in established collaborator institutions.

[On this page](#) you can read more about the keynote speakers and access their presentations, as well as workshop presentations.

CDIO ACTIVITY PLAN FOR 2024

The CDIO activity plan for 2024 has been worked on international working meetings and CDIO leaders' online meetings. Furthermore, comments have been requested from the community. The final version for 2024 activities has activities focusing on CDIO as framework and community and they try to define policies/procedures/schedules for the future. Another group of activities are different on-going activities in CDIO, which involve CDIO community to work together on a specific theme. Some of the activities are already progressing nicely and some will have round tables or workshops in Tunis conference this June.

Activity	Description
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.
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.
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.
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 be prepared.

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.
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).

In on-going activities, we have these three at the moment:

- Continuous curriculum development and pedagogical innovation in engineering education – Curriculum Agility
- CDIO Technician Network
- Peer-to-peer support.

WHAT IS HAPPENING IN THE WORKING GROUP CURRICULUM AGILITY?

Since the conference in Kanazawa in 2018 we have been working on the concept of Curriculum Agility within CDIO: how to design and organize your engineering programmes in a way that they can easily be adjusted over time to (fast-paced and successive) developments in technology, society and the students' characteristics and needs. Curriculum Agility is about teaching dynamic content with flexible pedagogy and didactics, in a responsive organization and with continuous staff development of all involved in a programme.



In ten co-creation sessions during the conferences and regional meetings, with a core group of CDIO-members complemented with one-time participants, ten principles of Curriculum Agility have been formulated that can help universities, faculties, schools, departments, or programmes. A self-mapping protocol on these principles with multiple programme-stakeholders has been created and tested in 5 pilots at Umeå University, Chalmers University, Delft University of Technology, Eindhoven University of Technology, and Turku University of Applied Sciences. We will present a paper about this at the conference in Tunis this year, and three more universities are lined up to do the self-mapping next.

THE PRINCIPLES OF CURRICULUM AGILITY

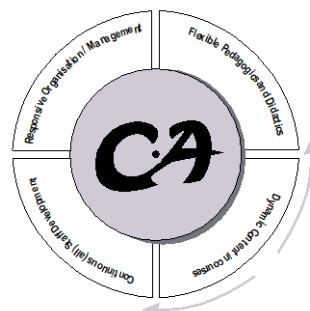
Curriculum Agility is to be responsive to changes in society's, industry's, and students' characteristics and needs, by proactively and in a timely manner adapting the curriculum's relevant organisational structures, learning outcomes, learning activities, and assessments.

Overarching

1. Educational Vision: With Agility
2. Stakeholder Involvement: Co-creation Including Decision-Makers
3. Pedagogy and Didactics: Supporting Pedagogic Innovation and Leadership

Organisation

7. Management Approach: Cultivating Change Culture
8. Legislation and Policy: Reframing the Rules
9. Organisation and Governance: Responsive Administration
10. Decision Making : Accommodating Implementation Politics



Education

4. Learning Objectives: Assessing on Holistic Learning Goals
5. Programme and Course Design: Dynamic Content and Flexible Education
6. Learning Spaces: Flexible Physical, Digital, and Social Solutions

In the meantime, at the EU/UK Regional Meeting at KTH in Stockholm last month, we introduced a quick scan as a first step into the self-mapping process, based on the same rubrics as we all use in the CDIO standards. Twenty-plus participants got to try out this new workshop, and appreciated the quick introduction into what CA beholds, the intuitive assessment of how they were doing at their place and sharing insights and understanding with fellow workshop participants. We intend to give the CA Quick Scan workshop more often in the coming time. If you are in Tunis, you are welcome to try it out yourself!

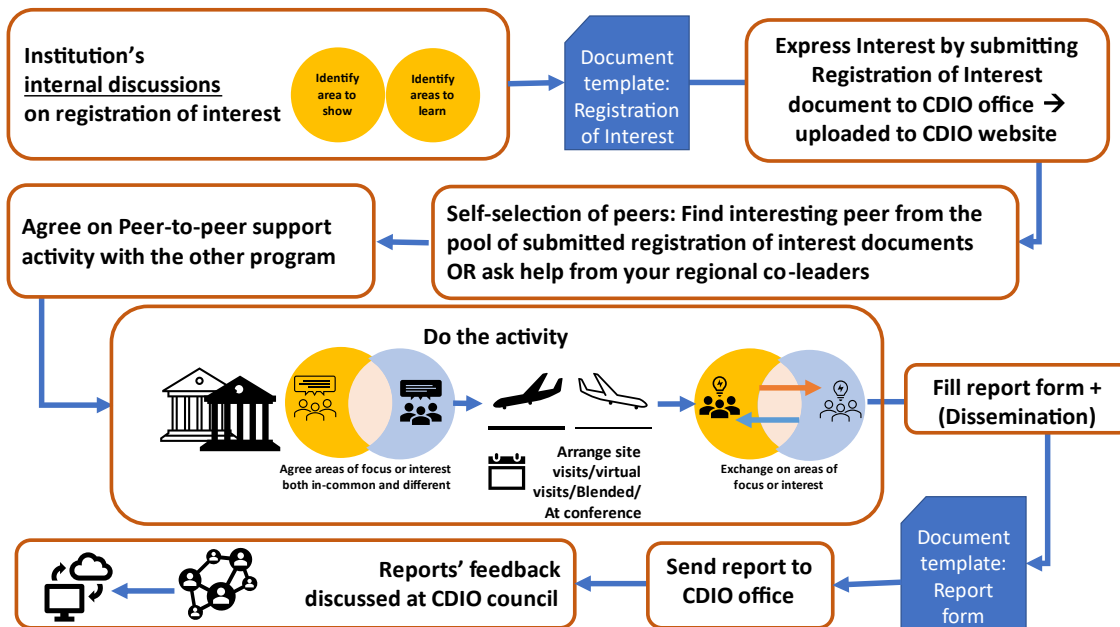


For more info: Suzanne.brink@umu.se

WHAT IS HAPPENING IN THE WORKING GROUP PEER TO PEER SUPPORT?

One of the values of being in the CDIO community is the opportunity to share and learn from one another. Peer-to-peer support is an activity that allows participating programs to share practices and enhance their programs continuously, have critical friends reviewing for their program, learn from the experiences of their peers and involve new staff members in CDIO activities.

Several workshops have been organized where the entire peer-to-peer support process has been explained to potential participating programs.



Before the workshops programs are asked to identify topics that their program is willing to share and topics that they like to learn/improve. At the workshop participants study the topics other participants have listed and we try to support participants to find pairs so that they can start their journey in peer-to-peer support activity. So far, we had some pilot pairs working on the peer-to-peer support activity and a number of potential pairs have been formed. If you want to learn more about this you can contact Paul Hermon (p.hermon@qub.ac.uk) or Juha Kontio (juha.kontio@turkuamk.fi).

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FUTURE MEETINGS

Following future CDIO meetings have been agreed:

Meeting	Place	Date
The 20th International CDIO Conference	ESPRIT, Tunisia	June 10, 2024 - June 13, 2024
2024 CDIO Asian Regional Meeting	Hokkaido Information University, Japan	September 5, 2024 - September 7, 2024
2024 CDIO International Working Meeting	Singapore Polytechnic, Singapore	September 25, 2024 - September 26, 2024
2025 CDIO European and UK&Ireland Regional Meeting	ISEP Porto, Portugal	Date to come
2025 CDIO International Working Meeting	Linköping University, Sweden	October 22, 2025 - October 23, 2025

List of future meetings available in CDIO Website too.

CALL FOR 2026 CONFERENCE HOST

Call for 2026 conference host has been sent to all contact persons of CDIO member institutions. We invited proposals for hosting the **International CDIO conference 2026** that will take place in June 2026. Proposals varying from hosting onsite physical conference to hybrid to fully online conference are all welcome.

The organizer of 2026 conference will be decided in the council meeting at CDIO International conference in June 2024.

The proposal submission deadline is **May 15, 2024**, and the proposals should be sent to either one of the CDIO Co-Directors (Helene_Leong@sp.edu.sg, Juha.Kontio@turkuamk.fi). You can contact us with any questions relating to this matter such as the format and content of the proposal.

ELECTIONS IN CDIO CONFERENCE IN JUNE 2024

The CDIO Initiative is supervised by the CDIO Council formed by the regional leaders (one vote/region), 6 Members-at-Large and 2 Co-directors. The current composition of the CDIO council is shown in the table below.

An individual may hold a CDIO Council post for a maximum of three periods (i.e., three, three-year terms) with an overlap between periods to ensure continuity. Co-director posts may be held for a maximum of three periods. Co-directors should be from different geographic regions.

The open CDIO Council positions are filled via elections at the CDIO Annual conference. The positions (marked red in the table next page) to be filled are **2 members at large positions for 2024 – 2027** and **Co-director for 2024-2026**. The current position holders are eligible to run for another term. Detailed information on how to run for these positions will be available by the election committee.

Category	Name	
Co-directors	Helene Leong , Singapore Polytechnic (2018-2020, 2020-2022 + extended to 2023, 2023-2025) Juha Kontio , Turku University of Applied Sciences (2022 - 2024)	
Regional leaders	Africa	Lamjed Bettaieb , ESPRIT
	Asia	Sin Moh Cheah Singapore Polytechnic (2022-2026), Tan Nhat TRAN Duy Tan University (2023-2025), Rajeev Sukuraman SRM Institute of Science and Technology (2023-2024)
	Australia & New Zealand	Nicoleta Maynard , Monash University
	Europe	Angelo Martins , ISEP Porto, Reidar Lyng , NTNU Trondheim, Suzanne Brink , Umeå University
	Latin America	Patricio Cea Echeverría , Universidad Católica de la Santísima Concepción, Messias Borges Silva , Universidade Estadual Paulista Júlio de Mesquita Filho-UNESP
	North America	Sami Ammar , Polytechnique Montreal, Ron Hugo , University of Calgary
	UK & Ireland	Paul Hermon , Queen's U Belfast (2024), Thomas Baker , Hertfordshire University (2025), Tony Topping , Liverpool University (2026)
Members-at-large	Angkee Sripakagorn , Chulalongkorn University, Thailand (2021-2024) Jason Power , University of Limerick, UK (2021-2024) Kristina Edström , KTH, Sweden (2022-2025) Anne Nortcliffe , Canterbury Christ Church University, UK (2022-2025) Matt Murphy , Liverpool University, UK (2016-2019; 2019-2023, 2023-2026) Vairavel Gurusamy , SRM IST, India (2023-2026)	



CDIO IWM 2024 SINGAPORE

Singapore Polytechnic Welcomes CDIO Members to the International Working Meeting 2024!

Singapore Polytechnic (SP) is proud to be the host for the 2024 CDIO International Working Meeting that is scheduled from the 25th to the 26th of September 2024. As SP will be celebrating our 70th anniversary and our 20th year of adopting CDIO, attendees intending to attend the International Working Meeting are also cordially invited to attend other activities as part of SP's 70th Anniversary celebrations.

Highlights of other celebratory events include:

1. Keynotes and Workshops from familiar friends and faces



Professor Kristina Edstrom

Dr. Ruth Graham

2. Address by 2nd Minister of Education, Singapore highlighting potential challenges as we continue to evolve our educational practices.

3. Potential Learning Journeys to various Institutions of Higher Learning in Singapore which may include:

- The National University of Singapore
- The Nanyang Technological University
- The Singapore University of Technology & Design
- Local Polytechnics

We look forward to having you in Singapore to renew friendships and celebrate new ones! Please refer to the following link for more information on the CDIO International Working Meeting 2024.



For More Information – [CDIO International Working Meeting 2024 \(sp.edu.sg\)](https://sp.edu.sg)

If you have any other queries, please do not hesitate to contact Sin Moh or Mark below.

Cheah Sin Moh – Cheah_Sin_Moh@sp.edu.sg | Mark Nivan Singh – Mark_Nivan_Singh@sp.edu.sg