

HANDBOOK TO GUIDE MEMBERS ON ORGANIZING KEY CDIO ACTIVITIES

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OVERVIEW OF THE ROUNDTABLE

CDIO has key events which are held annually where collaborators meet, share practices, network and make decisions. As CDIO is an international community, these events are rotated across the different regions in the world and new hosts are selected every year.

It is thus timely that the experiences and expectations of organising these events, namely, the CDIO annual International Conference, the CDIO International Working meetings and the CDIO Regional Meetings and their supporting activities are captured in a guide for future hosts. At the 2022 CDIO International Working meeting, a group was set up to work on a draft guide for organising these events. The objective is to eventually produce a handbook for CDIO Activities.

The handbook aims to provide collaborators interested in organizing and hosting official CDIO events with useful and easily accessible information on the key purposes, activities and practical information about the events. It is intended to be written at a holistic level so as not to micromanage and to allow flexibility for the local conference committee.

This roundtable will seek the views of CDIO collaborators to give feedback and provide suggestions on the drafted content, as well as to give suggestions on potential content areas that may not have been included and which collaborators may find useful.

KEYWORDS

Handbook, CDIO Events, CDIO Activities, Standards 1, 9

ACTIVITIES

To facilitate the roundtable, the following activities are proposed.

Activity 1: Introduction and Context Setting

Facilitators will first outline the objectives of having such a guide and then state clearly what is the intended output for the Roundtable and the roles that participants will play.

Activity 2: Individual Activity

Draft copies of the handbook will be shared with the roundtable participants to browse. Participants will be split into groups to focus on specific parts.

Activity 3: Analysis and Suggestions (Group Activity)

Participants will be given some time by the facilitators to discuss and give their input on the content that they have been assigned to. This is also an opportunity for participants to clarify and ask questions that they may have. It is also an opportunity for participants to provide suggestions on possible content that should be edited, added or removed.

Activity 4: Clarification and Summary

The last segment will focus on the authors clarifying ideas and suggestions explaining what the follow up activities will be.

TARGET AUDIENCE

The recommended target audience would be CDIO collaborators and Institutions who may be considering organizing CDIO formal events as well as the various regional leads who can give feedback

FOLLOW-UPS

Follow-Up 1: Inclusion of New / Edited Sections of the Handbook

The authors will make use of the feedback to edit existing content and create new content.

Follow-Up 2: Formalising the Handbook by publishing it on the CDIO

The authors will also follow-up with the CDIO office to publish the Handbook for all CDIO collaborators.

BIOGRAPHICAL INFORMATION

Mark Nivan SINGH is Deputy Director of Educational Development at Singapore Polytechnic. Mark leads in the implementation of educational initiatives like CDIO, Flipped Learning, Self-Directed Learning and Pedagogy for the Professions. Part of his work also involves working closely with faculty to re-design their curriculum, innovate their teaching and learning approaches and conducting workshops and other professional development activities.

Sin-Moh Cheah is the Lead Teaching & Learning Specialist in the School of Chemical and Life Sciences, Singapore Polytechnic; as well as the Head of the school's Teaching & Learning Unit. He spearheads the adoption of CDIO in the Diploma in Chemical Engineering curriculum. His academic interests include curriculum revamp, academic coaching and mentoring, and using ICT in education. Sin Moh is also the current Co-Director for the Asian Region.

Helene LEONG is Director of Educational Development at Singapore Polytechnic. She and her team lead the conceptualisation and implementation of educational initiatives like CDIO, Flipped Learning, Design Thinking, Social Innovation projects, and Self-directed Learning in the polytechnic. The department is also responsible for the faculty development and the

formation of faculty professional identities and competencies with a focus on building a culture of continuous learning and teaching innovation.

Helene has been involved in CDIO since 2004. She leads the implementation of CDIO in SP and have contributed papers and conducted workshops at the CDIO conferences since 2005. She is currently the co-chair of the CDIO council.

Janne **Roslöf** is the director of the Centre for Lifelong Learning at Åbo Akademi University (ÅAU), Finland. He holds a D.Sc. and M.Sc. in process systems engineering from ÅAU and an M.A. in education science from the University of Turku, Finland. Also, he is an adjunct professor of software engineering education in the Faculty of Science and Engineering at ÅAU. He has served as one of the co-chairs of the International CDIO Conference since 2016.

Juha **Kontio** has a Doctor of Sciences in Economics and Business Administration. At the moment he is Dean at the Faculty of Business, ICT and Life Sciences in Turku University of Applied Sciences. His research interest is in higher education related topics. He is also the co-director of the CDIO and is often sought after for his views on CDIO Education matters.

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