

Notes from CDIO member's meeting #34, UPC Barcelona

UPC Barcelona, Barcelona, Spain, June 15-19, 2014

Compiled by: Malin Kjellberg, Johan Malmqvist, Ron Hugo

Council members present: Johan Malmqvist, Ron Hugo, Jens Bennedsen, Juha Kontio (until 14.30), Aldert Kamp, Kristina Edström, Svante Gunnarsson (until 14.45), Ximena Vargas, Ramon Bragos, Fredrik Georgsson, Terry Lucke, Duncan Campbell, Matt Murphy, Helene Leong-Wee Kwee.

Agenda

1. CDIO Elections
2. CDIO Initiative vision and mission statements
3. New member applications
4. Ending CDIO Initiative membership
5. Regional meetings & issues
6. CDIO regional structure
7. CDIO Office Report
8. Naming of CDIO meetings
9. Conference 2014 report
10. Plan for Fall 2014 meeting
11. Plan for Conference 2015
12. Locations of future meetings
13. Telecons June-Oct

1. CDIO Initiative Elections

The CDIO Election committee conducted the second CDIO Initiative Elections. The committee members were Rob Niewoehner, Ramon Bragos (chair), Joh Hee-Liang, Sylvain Turenne, Terry Lucke and Ximena Vargas.

48 CDIO Initiative members cast votes in the elections.

The open positions included one position as co-director (elected) and two positions as member-at-large of the CDIO Council (elected).

The candidates for the elected positions were:

Co-director	Ron Hugo (University of Calgary, Canada)
Members-at-Large	Kristina Edström (KTH Royal Institute of Technology, Sweden)
	Aldert Kamp (Delft University of Technology, The Netherlands)
	Daniel Spooner (Ecole Polytechnique Montreal, Canada)
	Gareth Thomson (Aston University, UK)

The result of the election became as follows:

Co-director	Ron Hugo (University of Calgary, Canada)
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Members-at-Large Kristina Edström (KTH Royal Institute of Technology, Sweden)
Aldert Kamp (Delft University of Technology, The Netherlands)

Ron Hugo serves a 2-year term as co-director. Kristina Edström and Aldert Kamp serve three-year terms as members-of-large.

2. Vision and Mission

With input from regional meetings during the morning and a long discussion, the CDIO Initiative Vision and Mission was adapted as:

The vision of the CDIO Initiative is to enhance engineering education to develop graduates capable of interpreting the needs of society and contributing to the creation of a better world.

The missions of the CDIO Initiative are to:

- *Sustain an active global community, which develops, shares and implements best practice in engineering education.*
- *Advance a coherent and common framework for engineering education which emphasizes a deep understanding of the engineering sciences applied in the context of conceiving, designing, implementing and operating real-world products, processes and systems.*
- *Promote engineering education in national and international communities.*

Accordingly, the CDIO Initiative activity list was updated to:

Community-building	Framework-creating and documenting	Engineering education-promoting
<ul style="list-style-type: none"> • Conferences • Meetings • People exchange • Competitions • Networking • Industry collaborator group • Common projects • Introductory presentations • Workshops • Consultancy • Training • Benchmarking • Web presence including website and social media 	<ul style="list-style-type: none"> • Review and improve CDIO framework (standards & syllabus) • Research projects • Joint papers • CDIO books • CDIO impact follow-up • Other publications • Video-sharing • Coursera for cdio 	<ul style="list-style-type: none"> • PR activities

3. New member applications

Applications from new schools were reviewed by the CDIO council/had been reviewed by regional centers.

The following applications were approved:

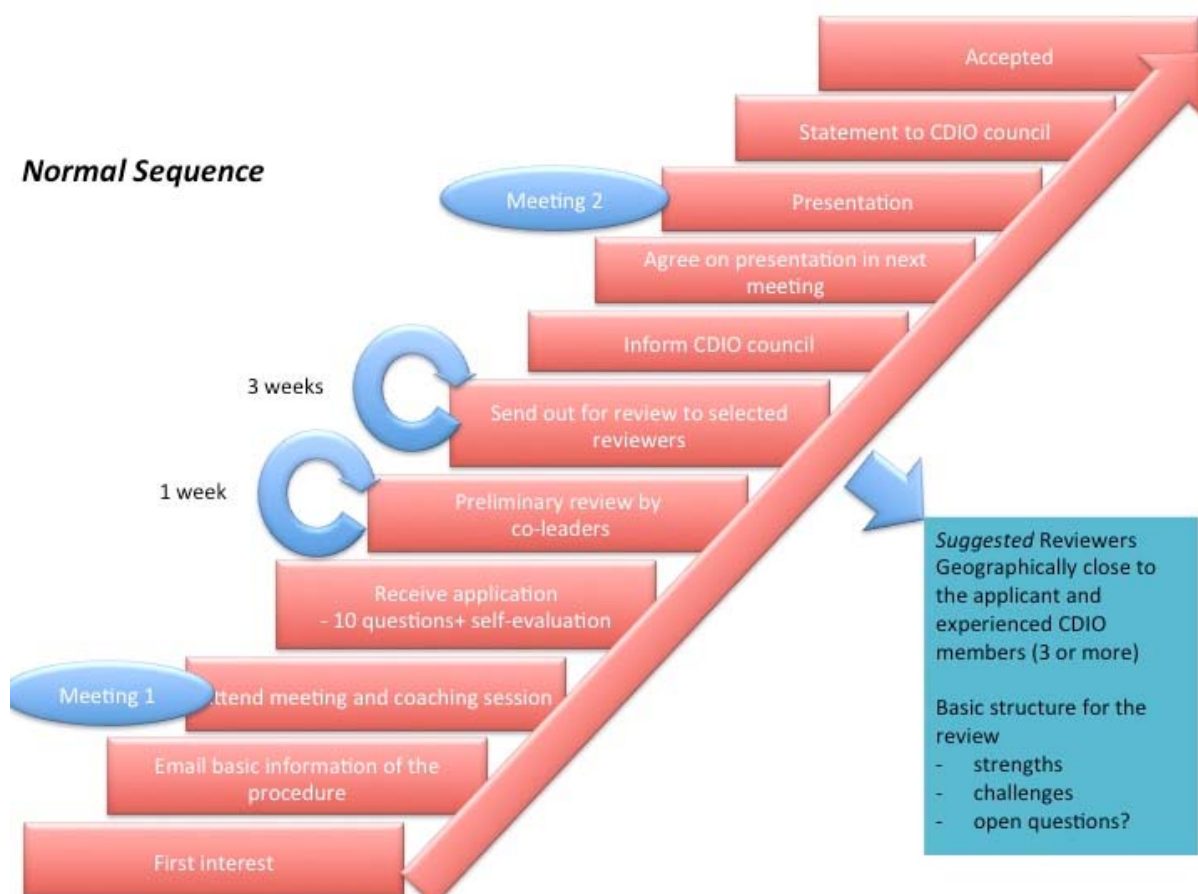
- Cherepovets State University, Russia.
- University of Quindio, Colombia.

The following applications were tentatively approved, pending additional documentation or finalized review.

The following applications was tentatively approved, pending documentation:

- Kazan Federal University, Russia.
- University of Johannesburg, South Africa.

The European region proposed a refined process for reviewing applications for joining the CDIO Initiative. The proposal was reviewed in the regional sessions, and generally accepted, with a slight modification: that it would suffice with 3 reviews in smaller regions. The modified process is shown below.



Finally, there was a discussion on the scope of the CDIO Initiative. Should the Initiative be open to educational programs in any area or should there be limits? It was tentatively decided that

universities applying for CDIO membership should offer engineering degrees. It was also suggested that the CDIO Initiatives statutes should be reviewed and possibly updated.

Actions: *Malin Kjellberg to send welcome letter to new schools, to update leader's list, and to create school profiles. The European region to follow up with Kazan and Johannesburg. Johan Malmqvist to distribute current version of CDIO Initiative statutes.*

4. Ending membership

The topic was discussed during the meeting but remains open. It was suggested that the CDIO office compiles participation data in order to further the discussions.

Actions: *The CDIO Office compiles information about which members that seem inactive based on the last 3 conferences: UPC 2014, MIT 2013, Brisbane 2012, and sends to regional leaders. Lists of registrations and contributions from these 3 might be available via Start and Rick Sellens.*

5. CDIO regional meetings and issues

Each region reported on its activities during 2013/14 and plans for 2014/15. Interest was indicated for regional webpages on the CDIO.org website, as well as regional mail lists.

Actions: *CDIO Office to set up regional websites and check if regional mail lists including administration is possible to do.*

6. CDIO regional structure

The European region brought up the CDIO regional structure for discussion. The background being that the European region has grown to 50 members. The region proposed to split the European region into four: Northern Europe, Southern Europe, Eastern Europe and Africa.

In the discussion, a number of concerns were voiced: How should the line be drawn between North, South and Eastern Europe? Many schools in Eastern Europe are new to the Initiative and wish to spend more time with the experienced CDIO schools prior to forming their own region. The Southern Europe region would have few members and runs the risk of being sub-critical.

Decision: *It was decided not to change the regional structure at the moment, but to bring the issue up when there are more members, and if there is an interest from universities in Africa, Southern or Eastern Europe to form own regions.*

7. CDIO Office Report

Johan Malmqvist reported on the status of the CDIO Office.

The staffing of the office is composed by three (part-time) people: Johan Malmqvist (director), Malin Kjellberg (coordinator), Mattias Andersson (website development and support).

The main task of the office during the period July 2013-June 2014 has been to transfer the website from MIT to Chalmers and to upgrade its software platform from Drupal 6 to Drupal 7.

In addition, a number of structure and content changes to the site have been made.

The office has initiated a strategic review of the CDIO Initiative, which so far has resulted in the formulation of vision and mission statements.

The office has obtained additional financial support from the Swedish government.

8. Naming of CDIO meetings

Ron Hugo had noted that people from other universities that are not members sometimes do not attend the regional meetings as the word “meeting” implies an internal activity. Ron proposed to change the word “meeting” to “workshop”.

In the discussion, it was argued that “meeting” and “workshop” have distinct meanings, and if the intent is to clarify that a meeting is open to anyone with an interest in CDIO, some other solution should be found. One suggestion was to include the word “open” in the name of a meeting. It was also proposed that the openness of CDIO meetings should be emphasized on the CDIO website.

9. Conference report 2014

Ramon Bragos reported on the outcomes of the conference. The exact participation numbers were not known at the time of the council meeting but were in the range of 270 full registration participants including 40-50 student participants.

Ramon reported that many registered very late, and routines for securing earlier registration and payment were discussed.

The CDIO council expressed its congratulations to UPC for an excellently arranged conference.

Actions: *The CDIO office to send invoice to UPC for 100 USD per registered participant.*

10. Planning for Fall meeting in Santiago Chile November 12-14th

The planning for the meeting has started locally and there is a meeting website, see <http://www.cdio.cl/fall2014>.

Johan Malmqvist asked for input on what to discuss in the member sessions at the Fall meeting. A number of proposals were put forward, including:

- Agenda/work
- Ending membership
- Regional structure
- SWOT analysis of the CDIO Initiative
- Goals for CDIO Initiative
- Conference organizer handbook
- Proposals for International CDIO Conference keynote speakers
- Awards for different achievements within the community – best paper award, etc.

Actions: *Patricio Poblete to develop programme for Fall meeting. Johan Malmqvist to prepare schedule for CDIO member sessions in the meeting.*

11. Plan for conference 2015

Chengdu University of Technology delivered an invitation to the 2015 conference during the last session on Wednesday.

12. Locations for future meetings

The 2014 Worldwide Fall meeting will take place at University de Chile, Santiago, Chile. Date 12-14 November, 2014. For information, see the website <http://www.cdio.cl/fall2014>.

The 2015 International conference will take place in Chengdu, China. Date June 8-11, 2015. The plans for the conference were presented. For more information, see <http://www.cdio2015.org>.

The 2016 International conference will take place in Turku, Finland on June 12-16, 2016. For more information, see <http://www.cdio.fi>.

Invitations will be sent out for offers to host the 2015 Worldwide Fall meeting and the 2017 International conference. According to the current principle for rotating conference and meeting locations, the 2016 Worldwide Fall meeting should take place outside of Asia and Latin America and the 2017 International conference should take place outside of Asia and Europe.

Action: Johan Malmqvist will send out invitation to offer future meetings.

13. Telecons June – October

CDIO leaders' on-line conferences were planned for:

- Tuesday, August 26, 2014.
- Wednesday, October 22, 2014.

The same time on all dates: 1400 Central European / 0800 Eastern American.

Action: Johan Malmqvist to set up conference calls for the meetings.