

Tuesday, June 15 th , am						
Time	Introductory Workshop		Time	Advanced Workshops		
09:00	Room M-1010	Introduction & Welcome C. Fortin	09:00	Room M-1020	TW1B: Engineering Reasoning Workshop R. Niewoehner	Room C-407.30 TW1C: Skyscraper Workshop Project-Based Learning Activity
09:10		TW1A: Establishing the Context & Defining the Learning Outcomes E. Crawley				
10:10	Coffee Break		10:10	Coffee Break		
10:30	Rooms M-2101 & M-2103	*TW2A&B: Designing an Integrated Curriculum J. Malmqvist & K. Edstrom	10:30	Room M-1020	TW1B: Engineering Reasoning Workshop R. Niewoehner	Room C-407.30 TW1C: Skyscraper Workshop Project-Based Learning Activity
11:40		*TW3A&B: Engaging Students in their Learning M. Murphy & C. McCartan				
13:00	Lunch		12:00	Lunch		

* These sessions will be divided in two sub-groups.

Tuesday, June 15 th , pm			
Time	Introductory Workshop	Time	Advanced Workshops
14:00	*TW4A&B: <i>Design-Implement Experiences</i> P. Goodhew & R. Hugo	13:30	TW4C: <i>Creating Rubrics for Teaching and Learning</i> D. Brodeur
15:10	*TW5A&B: <i>Assessing Student Learning</i> A. Kozanitis & A. McLaren		TW1C: <i>Skyscraper Workshop</i> Project-Based Learning Activity
16:30	Coffee Break	15:30	Coffee Break
16:40	Introductory Workshop	16:00	Advanced Workshops
17:40	TW6A: <i>Adapting & Implementing the CDIO Approach</i> H. Leong-Wee		TW5C: <i>I miss my pencil 2</i> M. Eggermont
	Workshop Summary & Closing C. Fortin		TW5D: <i>Skyscraper Workshop</i> Master Teacher Seminar Outline
18:00	Dinner Cruise	18:00	Dinner Cruise

* These sessions will be divided in two sub-groups.

Wednesday, June 16th, am

Time					
08:50	Room C-631	<p><i>Welcome</i></p> <p>Christophe Guy, École Polytechnique de Montréal Pierre G. Lafleur, École Polytechnique de Montréal</p>			
09:10	Room C-631	<p>W1 Plenary session</p> <p>Ed Crawley, Johan Malmqvist, Peter Goodhew, Advisory Committee <i>CDIO Certification</i></p> <p>Éric Mazur, Harvard University <i>Memorization or understanding: are we teaching the right thing?</i></p> <p>Maura Borrego, Virginia Polytechnic Institute <i>Creating a Culture for Scholarly and Systematic Innovation in Engineering Education.</i></p>			
11:00	Coffee Break				
		W2A Implementing CDIO	W2B Entrepreneurship	W2C Professional Skills	
11:30		<p>Chair: Sylvain Turenne</p> <p><i>Development of a Model Framework for CDIO Implementation in Vietnam</i> B. Phan, N. Nguyen, M. Le, N. Ho, T. Doan, H. Tran, L. Vu, L. Nguyen and B. Le</p>	<p>Chair: Patrick Oosthuizen</p> <p><i>Inspiring the Inner Entrepreneur in Students – A Case Study of Entrepreneurship Studies in TUAS</i> J. Kontio</p>	<p>Chair: Rob Niewoehner</p> <p><i>Engineering and Communication Integrated Learning - Collaboration Strategies for Skills and Subject Experts</i> C. J. Carlsson, K. Edström and H. Malmström</p>	
11:50	Room M-1010	<p><i>The Metropolia adaptation of CDIO in all 20 of its engineering study programmes</i> K. Schrey-Niemenmaa, M. Karhu, A. Ristola and J. Sirkjärvi</p>	Room M-1020	<p><i>Engineer Professional Identity: An Active Session for Clarifying Student's Perceptions</i> S. Rouvrais and N. Chelin</p>	Room C-407,30 Skyscraper Project-Based Learning
12:10	<p><i>The Tentative CDIO Practices in AIR, Tsinghua University</i> H. Chen, C. Hu, D. Ge, G. Yang and S. Fu</p>	<p><i>Adapting the CDIO Approach in Developing Learning Outcomes for Economics and Business Disciplines in Vietnam: A Case-Study of University of Economics and Business at Vietnam National University, Hanoi</i> D.A. Vu and N.X. Phùng</p>	Room M-1120	<p><i>Teaching Team Dynamics: Experiences in Second-Year Mechanical Engineering Design</i> P. Ostafichuk, A. Hodgson, S. Bartek and C. Naylor</p>	
12:30	Lunch, Roundtables				

Wednesday, June 16 th , pm						
Time	W3A Workshop		W3B Workshop		W3C Advanced Workshop	
14:00	Room M-1020	Maura Borrego <i>Creating a Culture for Scholarly and Systematic Innovation in Engineering Education</i>	Room M-1010	Éric Mazur <i>Peer instruction: The Interactive Learning Toolkit</i>	Room C-407.30 Skyscraper Project-Based Learning	
15:30	Coffee Break					
16:00	W4A Chemical Engineering Chair: Michel Perrier <i>The Use of Industrial Visits to Enhance Learning at Engineering Courses</i> M. Shamel, E. Chung, T. N. Pillai Padmesh and A. Mahdi		W4B Assessment Chair: Guy Cloutier <i>Challenges in Grading Project Teams</i> J. Koster		W4C Overview of Engineering Chair: Ron Hugo <i>Spinning New Engineering Students' Minds</i> B. Campos Neves and P. Barbosa Guedes	
16:20	Room M-2109	<i>Sustaining Curriculum Innovation: the Diploma in Chemical Engineering Experience</i> S. M. Cheah and D. Sale	Room M-2110	<i>Assessing the Development of Personal and Professional Skills in Group Projects</i> J. P. Hermon and C. D. McCartan	Room M-2101	
16:40		<i>Integrating Chemical Engineering Fundamentals in the Capstone Process Design Project</i> N. von Solms, J. Woodley, J. E. Johnsson and J. Abildskov		<i>Assessment of CDIO Skills for Student Final Year (Capstone) Projects of Different Genres</i> K. E. Ting and S. M. Cheah		Room M-2103
17:00		<i>Project-based Curriculum Integration of Core Courses in Chemical Engineering</i> F. Bertrand, C. Dubois, P. Farand, D. Klvana, R. Legros and M. Perrier		<i>The role of assessment in managing student diversity</i> S. Azasu, R. Hungria-Gunnelin and K. Edström		
			<i>An integrated CDIO - EQF engineering framework for Europe</i> A. Castelli, C. Marinoni, C. Bisagni, D. Brodeur, E. Crawley, A. Causi, C. Fortin J. Malmqvist and C. Maury	<i>Evaluating the implementation of CDIO programs at Singapore Polytechnic: The second year</i> H. Leong-Wee, D. Sale, C. Wee and L. E. H. Wuan		
					Room C-407.30 Skyscraper Project-Based Learning	
	W4D Integration & Evaluation Chair: Daryl Boden <i>Benchmarking Teaching and Learning Practices in Finnish Engineering Education</i> A. Kleemola, S. Kolari, J. Roslöf and C. Savander-Ranne					
	W4E Advanced Workshop					
	W5 Poster Teaser Session Chair: Rick Sellens Short presentation of posters					
17:20	Room M-1010					
18:00	Poster Session, Meet-the-Authors Reception					

Thursday, June 17th, am

Thursday, June 17 th , am						
Time	T1 Plenary Session					
08:30	Room C-631	Chair: Clément Fortin, École Polytechnique de Montréal Jean-Paul Lemarquis , Bombardier Aerospace Dave Wisler , General Electric				
10:00	Coffee Break					
		T2A International Mobility Multicultural	T2B Sustaining CDIO, Implement	T2C Active Learning 1	T2D Industry Connections 1	T2E CDIO Academy
10:30		Chair: Duncan Campbell <i>CDIO as a Force for Good – A Water Sanitation and Hygiene Community Service Project in Myanmar</i> C. Ng Huiting, D. Sale and A. Yeo	Chair: Peter Goodhew <i>Ten years of CDIO – Experiences from a long-term education development process</i> J. Malmqvist, J. Bankel, M. Enelund, G. Gustafsson and M. Knutson Wedel	Chair: Kristina Edström <i>Applying CDIO through Guided Independent Learning in a chemistry programme</i> A. Messens and I. Claeys	Chair: Svante Gunnarsson <i>Industry Linkages@NYP – Translating Innovative Approaches into Action</i> A. de Roza	
10:50	Room M-2203	<i>Intercultural Competence in Engineering Education</i> T. Josefsson	<i>Sustaining Momentum when Implementing CDIO in a set of Study Programs</i> B. Lund Christiansen, L. Bjerregaard Jensen, A. Krogsbøll and L. Engberg Willumsen	<i>Promoting Systems Thinking and Problem Solving Skills through Active Learning</i> C.-A. Koh	<i>Mapping an industrial IT project to a 2nd semester design-build project</i> M. Nyborg and S. Høgh	Design Competition
11:10		<i>Toward Internationalized Engineering Curriculum and Student Mobility</i> D. Campbell and H. Beck	<i>A model to sustain engineering mathematics learning in a CDIO environment</i> C. D. McCartan, J. P. Hermon and G. Cunningham	<i>Impact of Digital Literacy on the Engineering Curriculum</i> J.-M. Gilliot, S. Garlatti and G. Simon	<i>Engaging Industry with Academic Programmes – A Master's Programme in Embedded Systems</i> J. C. Cunha, J. P. Amaro and L. Marques	
11:30	Lab Tours					
	1) Integrator project spaces 2) Testing laboratories 3) Specialized workrooms 4) General visit					
12:30	Lunch Roundtables					

Thursday, June 17th, pm

Time	T3A Quality Assurance from Accreditation, Certification	T3B Undergraduate Education	T3C System Engineering and Mechatronics	T3D Industry Connections 2	T3E CDIO Academy
14:00	Chair: Doris Brodeur <i>The development of a new efficient and cost-effective mapping process to be used with generic frameworks with the aim of curriculum improvement</i> A. B. Popp and D. C. Levy	Chair: Matt Murphy <i>The Materials Curriculum: What Europe wants</i> P. Goodhew, T. Bullough and D. Taktak	Chair: Maria Knutson Wedel <i>Systems Engineering Approach for a Robotic Project by Electrical and Electronics Engineering Students</i> S. Chu Chow and M. Al-Atabi	Chair: Nhut Tan Ho <i>Teaching professional engineering skills - Industry participation in realistic role play simulation</i> N. Andersson and P. Hammar Andersson	Design Competition
14:20	<i>CDIO as a Foundation for Program Accreditation/Certification in Portugal</i> J. Rocha, A. Costa and A. Martins	<i>A Weeklong event of Millennium Development Goals</i> D. Lopes, E. Pinto Ferreira, J. Rocha and A. Soares Ferreira	<i>What Did I Really Learn in my Mechatronics Class ? The Challenge Line Problem Revisited</i> B. Surgenor and K. Firth	<i>A National Graduate Research School with Close Industrial Collaboration</i> G. Gustafsson and L. Frenning	
14:40	<i>Mapping the relationship between the CDIO Syllabus and the 2008 CEAB Graduate Outcomes</i> G. Cloutier, R. Hugo and R. Sellens	<i>Strategies to Engage Capstone Design Course Sponsors in High-Priority, Client-Focused Projects</i> H.F. M. Van der Loos, E. Croft, A. Hodgson, J. Mikkelsen and P. Winkelman	<i>Embracing CDIO: Developing a Mechatronics Learning Studio</i> R. Habash, C. Suurtamm and D. Neculescu	<i>Enhancing the CDIO learning experience through industrial partnered real world engineering projects</i> A. Kon and D. Sale	
15:00	<i>The CDIO Syllabus and Outcomes-based Assessment: A Case Study of a Canadian Mechanical Engineering Program</i> R. Brennan and R. Hugo	<i>How to Include Sustainability in Engineering Education? - The "Green Challenge" at DTU is one way</i> P. M. Hussman, C. Trandum and M. E. Vigild	<i>Engagement and Learning in Microcontroller Systems Projects among Mixed Engineering and Product Design Cohorts</i> G. Thomson		
15:10	<i>CDIO and Engineering Education Quality Assurance: A Global Perspective</i> A. Patil and P. Gray				
15:20	Coffee Break				

Room M-2203

Room M-2204

Room M-1020

Room M-1120

Room M-1010

Thursday, June 17th, pm

Time	T4A Curriculum Design	T4B Active Learning 2	T4C Engineering & Design	T4D CDIO Academy
15:50	Chair: David Levy <i>Using personas to guide education needs analysis and program design</i> A. Yström, L. Peterson, B. von Sydow and J. Malmqvist	Chair: Anastassis Kozanitis <i>A new Introduction to a Master Programme in Materials Science, Turning Student Diversity into an advantage</i> M. Knutson Wedel and H. Persson	Chair: Martin E. Vigild <i>Mechanical Dissection in an Introductory Engineering Design Module</i> A. McLaren and P. Jenkins	Design Competition
16:10	<i>Mass customization in engineering programs: A framework for program management</i> A. Martins and A. Costa	<i>Active Learning in a Second Year Machine Design Programme at Singapore Polytechnic's School of Mechanical and Aeronautical Engineering</i> S. Lan Ng, L. Seng Lee, L. Lee and H. Leong	<i>Conceiving and Designing an "introduction to engineering" course within the new curricula at Telecom BCN, UPC Barcelona</i> R. Bragos, E. Alarcon, A. Camps, J. Pegueroles, J. Sarda and E. Sayrol	
16:30	<i>Survey for Program Evaluation of Aerospace Engineering at Politecnico di Milano</i> C. Bisagni, G. L. Ghiringhelli and S. Ricci	<i>The Challenge of Teaching Multidisciplinary Sustainable Development Capstone Project</i> A. Desjardins, L. Millette and E. Bélanger	<i>Three years of CDIO/ACM based Informatics Engineering Undergraduate Degree at ISEP</i> A. Costa and A. Martins	
16:50	<i>Scaffolding & Fading Within and Across a Six-Semester CDIO Design Sequence</i> C. Putnam, J. O'Donnell and N. Bertozzi	<i>Teaching manufacturing processes with computer animations</i> M. Balazinski and M. Reggio	<i>Multi-disciplinary design-build PBL as an introduction to engineering</i> X. Lu, Y. Fan, S. Banzaert and J. Jacobs	
17:10	Closing Session Chair: Clément Fortin <i>CDIO Academy Awards</i> Martin E. Vigild, Technical University of Denmark			