

12:00 - 1:00	LUNCH					
1:00 - 3:00	Teaching and Learning Workshops 1					
	ROOM:	Orchid	Lady Slipper	Arnica	Crocus	Wapiti
		1A. <i>EGAD Workshop 1: Using learning outcomes for course and program improvement</i>	1B. <i>Part 1 of 2: Teaching Engineering Design Philosophy at the Post-Graduate Level</i>	1C. <i>Engineering Outreach Activities in Canadian Primary and Secondary Schools</i>	1D. <i>Creating Inter-subjective Agreement Between Multiple and Multidisciplinary Instructors in Design Assessment</i>	1E. <i>Flipped/Inverted Classroom Techniques</i>
		Brian Frank, Jake Kaupp, Susan Mccahan and Peter Wolf	Ron Britton and Douglas Ruth	Sean Maw	Jason Foster, Alan Chong, Patricia Kristine Sheridan and Lydia Wilkinson	Doug Wagner, Jason Bazylak and David Demontigny
3:00 - 5:00	Teaching and Learning Workshops 2					
	ROOM:	Orchid	Lady Slipper	Arnica	Crocus	Wapiti
		2A. <i>EGAD Workshop 2: Leading a program improvement process that does something useful with your data</i>	2B. <i>Part 2 of 2: Teaching Engineering Design Philosophy at the Post-Graduate Level</i>	2C. <i>Engineering Education: From Passion Killed to Passion Unleashed</i>	2D. <i>Introducing and Teaching Mobile Application Design and Development</i>	2E. <i>Building Robust Midterms</i>
		Brian Frank, Jake Kaupp, Susan Mccahan, Peter Ostafichuk and Peter Wolf	Ron Britton and Douglas Ruth	Dave Goldberg, Heather Murdock and Anita Lazurko (Big Beacon)	Qusay Mahmoud	Suzanne Kresta, John Nychka and Ken Cor
5:00 - 5:30	FREE TIME					
5:30 - 6:30	Ice Breaker: Raddison Patio					

7:00 - 8:30	BREAKFAST: Restaurant Buffet, Radisson			
8:30 - 10:00	WELCOMES and KEYNOTE: Wild Rose Ballroom, Radisson			
	Jay Ingram, <i>CEEA 2014 Keynote Speaker</i>			
10:00 - 10:30	BREAK			
10:30 - 12:10	PAPER SESSIONS			
Session (Room)	1. Graduate Student Work/Programs (Orchid)	2. Professional Development (Lady Slipper)	3. Industry/Academic/Regulatory Partnerships (Arnica)	4. Program Development (Crocus)
Chair	Patricia Sheridan	Clif Johnston	Brian Frank	Susan McCahan
10:30	11. <i>Modification of Teaching Assistant Training to Enhance Engineering Education</i> Susan Caines, Loeonard Lye and Mohammed Raju Hossain	9. <i>Using Career Education to Help Students Build and Articulate their Employability Skills</i> Lynda Peto and Carolyn Geddert	35. <i>Industry Forum III: Towards a Common Language</i> Ken Ferens, Jill Seniuk Cicek, Nariman Sepehri, Witold Kinsner, J.P. Burak, Anne Parker, Dean McNeill, Douglas Ruth, Ian Jeffrey, Norma Godavari, and Sandra Ingram	5. <i>Improving Student Interest in Engineering Through Quality Enhancement Projects: Mechanical Testing of Biomaterials</i> Barry Hojjatie, Lauren Hale and Minh Tran
10:50	16. <i>Delivery of a Graduate Course in Fire Performance Testing Using Videoconference Technology</i> David Torvi and Elizabeth Weckman	29. <i>"CALL it LEADERSHIP!" Engineering Entrepreneurs speak back to resistance</i> Doug Reeve, Robin Sacks and Cindy Rottmann	62. <i>Building Relationships between Engineering and the Trades through Service Learning</i> Darlene Spracklin-Reid, Amanda Ryan and April Smith	41. <i>Making Connections with Case Studies: A Student's Perspective</i> Yaxin Zheng
11:10	27. <i>Academic Impact and Personal Experience of Design Teaching Assistants in Undergraduate Courses</i> Flavio Firmani, Michael McWilliam and Peter Wild	38. <i>Teaching Entrepreneurship through a Universal Innovation Framework</i> Lotfi Belkhir	65. <i>Industrial Projects in a Project-Based Learning Environment</i> Karen Cain and Calin Stoicoiu	66. <i>Initiatives for Attracting and Retaining Female Students in Mechanical Engineering</i> Aezeden Mohamed and Greg Naterer
11:30		47. <i>Sustainability Entrepreneurship in Engineering</i> Amy Hsiao	142. <i>Development of an Integrated Learning Suite for Outcomes Aggregation, Analysis, and Reporting</i> Brian Frank, Michael Moore, Eric Tremblay, Jake Kaupp and Carrie Handley	81. <i>Addressing the Sustainable Development Gap in Civil Engineering</i> Matt Wright, Susan Nesbit and Thomas Froese
11:50		112. <i>Teaching Innovation and Entrepreneurship: Impact on Intention and Capability</i> Antony J. Hodgson and Machiel Van Der Loos		85. <i>Understanding the Literature on Problem Analysis</i> Albert Huynh and Susan McCahan

12:10 - 1:00	LUNCH: Wild Rose Ballroom, Radisson			
1:00 - 2:00	KEYNOTE: Wild Rose Ballroom, Radisson			
	Marlo Reynolds, <i>CEEA 2014 Keynote Speaker</i>			
2:10 - 5:00	PAPER SESSIONS			
Session (Room)	5. Minerva/Safety (Orchid)	6. Online/Blended Learning (Lady Slipper)	7. Evaluation/Assessment (Arnica)	8. Accreditation/Outcomes I (Crocus)
Chair	Tony Pasteris	Patricia Sheridan	Sean Maw	Bob Brennan
2:10	124. <i>Engineering Student Health and Safety Teaching Modules</i> Tony Pasteris, Graeme Norval and Anis Haque	25. <i>Massive Open On-line Courses in Engineering</i> Nafia Al-Mutawaly and Mike Piczak	53. <i>Communication skills, abilities to be developed during undergraduate studies: a personalized approach at Polytechnique Montréal</i> Sylvie Hertrich and Dominique Chassé	1. <i>Development and Use of Simulation Apps and Physical Toys for Teaching Experimental Design Principles</i> Leonard Lye
2:30	17. <i>Introduction to Health and Safety Responsibilities</i> Graeme Norval	46. <i>Comparing Expectations to Experience in Online Teaching</i> Susan McCahan, Bryan Karney and Shai Cohen	55. <i>Effect of Student Grade Self-Estimation during Examinations on Progress in Undergraduate Embedded Systems Courses</i> Militina Gorobets, Michael Smith and Emily Marasco	6. <i>Assessing Life-long Learning in a First-year Design and Communication Course</i> Robert Brennan, Marjan Eggermont, Amada Deacon, Nicole Larson and Thomas O'Neill
2:50	120. <i>Teaching Electrical Safety in First Year Engineering</i> Anis Haque and Longchen Liu	26. <i>TURNING A NEGATIVE INTO A POSITIVE WITH MODERN ELECTRONIC TECHNOLOGIES</i> Nafia Al-Mutawaly and Mike Piczak	57. <i>Evaluation of Student Work Using a Letter Grading System in Design and Calculus</i> Sean Maw and Indy Lagu	7. <i>Evaluation of software tools supporting outcomes-based continuous program improvement processes: Part 2</i> Jake Kaupp and Brian Frank
3:10	18. <i>A SELF-TEACHING MODULE FOR RISK MANAGEMENT</i> Graeme Norval and Krystal Godri-Pollitt	61. <i>Teaching with Technology in Engineering Education</i> Darlene Spracklin-Reid and Pam Phillips	101. <i>Pedagogical Innovations to Support Large Scale Undergraduate Independent Research Projects</i> Lisa Romkey and Alan Chong	12. <i>The Development and Teaching of Corrosion Laboratory in an Engineering Program</i> John Shirokoff and Susan Caines
3:30	BREAK			

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Paper Sessions continued from previous page

Session (Room)	5. Minerva/Safety (Orchid)	6. Online/Blended Learning (Lady Slipper)	7. Evaluation/Assessment (Arnica)	8. Accreditation/Outcomes I (Crocus)
Chair	Tony Pasteris	Patricia Sheridan	Sean Maw	Bob Brennan
3:40	76. <i>Process Safety Management Learning Module</i> Valerie Orr, Shahzad Barghi and Ralph Buchal	71. <i>Increasing student engagement in class using an open-ended student response system</i> Maria Orjuela-Laverde and Anne-Marie Kietzig	122. <i>TRANSITION FROM PAPER TO ONLINE COURSE EVALUATION: PRELIMINARY TRENDS IN STUDENT RESPONSE RATE AND OVERALL PROFESSOR EVALUATION</i> Christopher R. Dennison, Cagri Ayranci, Pierre Mertiny and Jason P. Carey	14. <i>Assessing Generic Learning Outcomes in Engineering: Queen's Engineering's role in the HEQCO Learning Outcomes Consortium</i> Jake Kaupp, Brian Frank and Natalie Simper
4:00	151. <i>A Module for Teaching the Role of Ethics in Safe Practice</i> Colleen Flather and Douglas Ruth	84. <i>Use of a learning management system for electronic submission and marking of a reflection journal</i> Alan Steele and Dragana Polovina-Vukovic	10. <i>Evaluating the Efficacy of a Software-Based Vocabulary Characterization Tool</i> Chirag Variawa and Susan Mccahan	19. <i>Reconciling Graduate Attribute Assessment with Existing Outcome-Based Assessment</i> Kumi Abercrombie, Diane Kennedy, John Jenness and Martin Bollo
4:20	128. <i>The development of a safety training strategy for first and second-year engineering design courses</i> Clifton Johnston, Richard Wile and Reg Peters	89. <i>An On-Line Team-effectiveness Learning System</i> Patricia Kristine Sheridan, Pok Man To, Greg Evans and Doug Reeve		15. <i>Approaching the Loop: A Review of Effective Practises in Continuous Program Improvement</i> Jake Kaupp and Brian Frank
4:40	77. <i>The Lac-Mégantic train disaster as a basis for a design project that emphasizes safety</i> Ralph Buchal, Nick Billingsley, Alex Bullock and Phil Poulin	156. <i>Insights into Student Experiences with Mobile Platforms and Application Development</i> Qusay Mahmoud		141. <i>Course Embedded Learning Outcome Assessment Based on Authentic Student Submission at the University of Guelph</i> Michael Moore, Peter Wolf and Carrie Handley
5:00 - 5:30	FREE TIME			
5:30 - 7:30	INTERACTIVE SESSIONS I (Beer and Snacks provided)			
	SESSION A1 (Room: Orchid/Slipper)		SESSION A2 (Room: Arnica/Crocus)	
	<i>Constructive Conflict Team Training: Empirical Evidence and Demo</i> Thomas O'Neill, Genevieve Hoffart, Matthew McLarnon, Marjan Eggermont, William Rosehart and Robert Brennan		<i>Special session: National snapshots on progress and discussion</i> Brian Frank, Jake Kaupp, Susan Mccahan, Peter Wolf and Peter Ostafichuk	

7:00 - 8:30	BREAKFAST: Restaurant Buffet, Radisson		
8:30 - 9:30	UNIVERSITY PRESENTATIONS		
	Set A (Room: Orchid/Slipper)	Set B (Room: Arnica/Crocus)	
8:30	Dalhousie (Johnston et al)	Memorial University (Fisher et al)	
8:50	University of Calgary (Eggermont et al)	McGill University (Orjuela-Laverde et al)	
9:10	Carleton University (Steele et al)	University of Alberta (Joseph et al)	
9:30 - 10:00	BREAK		
10:00 - 12:20	PAPER SESSIONS		
Session (Room)	9. Design I (Orchid)	10. Teaching Tools/Labs (Lady Slipper)	11. Accreditation/Outcomes II (Arnica)
Chair	Sean Maw	Peter Wild	Diane Kennedy
10:00	2. <i>Strategy for Teaching and Learning of Systematic Design Engineering</i> W. Ernst Eder	4. <i>Teaching Feedback Control Theory using an Integrating Design Project</i> Michel Couturier	31. <i>Rubrics as a Vehicle to Define the Twelve CEAB Graduate Attributes, Determine Graduate Competencies, and Develop a Common Language for Engineering Stakeholders</i> Jillian Seniuk Cicek, Sandra Ingram, Nariman Sepehri, J.P. Burak and Paul Labossiere
10:20	13. <i>How does multicultural competence affect psychological safety and innovation in undergraduate engineering design teams?</i> Sara Scharf, Jason Foster and Kamran Behdinan	20. <i>Laboratory based Project for Experiential Learning in PLC Systems Integration and PLC Systems Data Access</i> Tom Wanyama and Ishwar Singh	23. <i>Alumni Survey for University of Manitoba Department of Biosystems Engineering</i> Myra Mackie and Danny Mann
10:40	36. <i>The development of a roadster frame as a problem-based learning experience in design</i> Cristian Iorga and Alain Desrochers	28. <i>Expanding Engineering Design with Mini Projects - Theory of Mechanisms a Pilot Course</i> Flavio Firmani, Sohad Kadhum and Peter Wild	32. <i>The Attribute Assessment Process at the University of Manitoba: Year Three</i> Jillian Seniuk Cicek, Sandra Ingram, Nariman Sepehri and J.P. Burak
11:00	42. <i>ENGAGING FIRST YEAR STUDENTS THROUGH CROSSDISCIPLINARY DESIGN PROJECTS</i> Emily Marasco, Laleh Behjat and Marjan Eggermont	37. <i>Non-linear model of a synchronous generator for dynamic simulations, training and teaching</i> Juste Tsotie Wamba, René Wamkeue and Gabriel Ekem	39. <i>The Self-Directed Learning Readiness Scale, Conscientiousness, and the Prediction of Engineering Student Learning Outcomes</i> Amanda Deacon, Nicole Larson, Thomas O'Neill, Robert Brennan, Marjan Eggermont and William Rosehart

Paper Sessions continued from previous page

Session (Room)	9. Design I (Orchid)	10. Teaching Tools/Labs (Lady Slipper)	11. Accreditation/Outcomes II (Arnica)
Chair	Sean Maw	Peter Wild	Diane Kennedy
11:20	52. <i>Measuring the Influence of Team Functioning on Design Project Outcomes</i> Peter Ostafichuk, Carol Naylor and Markus Fengler	127. <i>Development of a Low Cost, Easily Constructed Drill Dynamometer Laboratory</i> Ted Hubbard and Clifton Johnston	33. <i>Surveying Fourth Year Engineering Student Perceptions of Graduate Attribute Competencies: Year Two</i> Jillian Seniuk Cicek, Paul Labossiere and Danny Mann
11:40	58. <i>An Introductory Design Project Case Study: Cardboard Beds for Emergency/Refugee Situations</i> Sean Maw	113. <i>Selecting a microcontroller development system for a laboratory in a real-time interfacing course</i> Witold Kinsner	43. <i>Meeting the Outcome-based CEAB Accreditation Criteria: Engineering Programs at UOIT</i> H. A. Kishawy, T Sidhu and R Pop-Iliev
12:00	64. <i>Using the Case Method to Facilitate Learning of Design for Manufacture and Cost</i> David Effa, Oscar Nespoli and Steve Lambert	70. <i>Teaching and Learning Digital Control through Quanser Rotary Experiment Solutions</i> Yang Cao	

12:20 - 1:00 **LUNCH: Wild Rose Ballroom, Radisson**

1:00 - 2:00 **WORK GROUP SESSIONS**

ROOM	Topic	Facilitator
Orchid	<i>Developing and Managing Multi-disciplinary Design Courses Projects</i>	David Strong
Lady Sl.	<i>Balancing and integrating theory and practice in first year</i>	Brian Frank
Arnica	<i>Integrating engineering economics, business practices, and entrepreneurship into the curriculum</i>	Sean Maw
Crocus	<i>Increasing First Nations Involvement in Engineering</i>	Diana Klassen
Wapiti	<i>Collaboration for shared online learning objects</i>	Susan McCahan

2:10 - 5:00 PAPER SESSIONS				
Session (Room)	12. EWB/Social Impact/Outreach (Orchid)	13. Pedagogy (Lady Slipper)	14. First Year (Arnica)	15. Accreditation/Outcomes III (Crocus)
Chair	Sean Maw	David Strong	Bob Brennan	Susan McCahan
2:10	22. <i>Designing Age Appropriate Engineering Outreach Activities</i> Martin Scherer and Mary Wells	3. <i>Theory of Technical Systems -- Learning Tool for Engineering Education</i> W. Ernst Eder	21. <i>Increasing Student Practical Experience with the Hurdle of Large Class Sizes</i> James Baleshta	45. <i>Review of Learning Outcomes Developed for Graduate Attributes</i> Susan McCahan and David Beach
2:30	163. <i>Engineers Without Borders In-Canada Engineering Educational Programming - Case Study of Two Projects</i> Dena Ghoneim, Patrick Miller and Anita Lazurko	49. <i>Rational and Teaching Objectives for a Canadian Engineering Ethics Game</i> Andrew Roncin	30. <i>Student Attitudes Towards Program Placement After First Year Common Core at the Schulich School of Engineering</i> Bob Brennan and Marjan Eggermont	54. <i>Engineering Design Questionnaire</i> Iman Moazzen, Mariel Miller, Peter Wild, Allyson Hadwin and Lillanne Jackson
2:50	103. <i>Out-of-Class Learning Opportunists for Engineers</i> Alidad Amirfazli	50. <i>Redesigning Probability & Statistics for Engineers Course by Developing a Custom Textbook and Refocusing Lectures on Problem Solving</i> Roes Budiman	34. <i>Redesigning the Learning Experience: One Professor's Efforts to Develop an Active and Engaging First Year Thermodynamics Course</i> Jillian Seniuk Cicek, Douglas Ruth and Sandra Ingram	51. <i>Using arts in engineering to develop graduate attributes in an outcome-based approach</i> Lochi Yu, Teodoro Willink and Fausto Calderon
3:10	114. <i>Pre-university outreach through a space camp and a Kirkness camp</i> Witold Kinsner, Mohamed Nasri, Hieu V. Dang and Kathryn Marcynuk	67. <i>A Closer Examination of the Claims of Excellent Corrosion Resistance of Stainless Steel: Textbook Misconceptions and Misinterpretations</i> Aezeden Mohamed	72. <i>Using peer-review as an active learning strategy in a large first year course</i> Maria Orjuela-Laverde and Lawrence R. Chen	63. <i>Teaching and Assessing Graduate Attributes in Cooperative Education</i> Darlene Spracklin-Reid
3:30	BREAK			
3:40	149. <i>Comparative Analysis of Engineering Curricula for Alignment with 21st Century Engineering Practices</i> Dena Ghoneim, Anita Lazurko, Patrick Miller and Sal Alajek	116. <i>A Framework for Learning Continuously Evolving Software</i> Colin Mcdonald and Ben Millen	80. <i>Using Broad-Disciplinary Laboratories to Teach Electric Circuits to First Year Students While Introducing Design and Professional Lab Practices</i> Cyrus Shafai	60. <i>Curriculum Mapping in Engineering Education: Linking Attributes, Outcomes and Assessments</i> Darlene Spracklin-Reid and Andrew Fisher
4:00	162. <i>StudyRoom: A Mobile Platform for Fostering Student Engagement in Classrooms</i> Alexander Emmanuel, Kyle Scharf, Jarred Szabadi and Cheryl Schramm	106. <i>Second-year integrative project for computer and software engineering students at Polytechnique Montréal</i> Olivier Gendreau	86. <i>First-year integrative project for computer and software engineering students at Polytechnique Montréal</i> Jérôme Collin	

Paper Sessions continued from previous page

Session (Room)	12. EWB/Social Impact/Outreach (Orchid)	13. Pedagogy (Lady Slipper)	14. First Year (Arnica)	15. Accreditation/Outcomes III (Crocus)
Chair	Tony Pasteris	Patricia Sheridan	Sean Maw	Bob Brennan
4:20	82. <i>Teaching Practices and Beliefs of Engineering Instructors: Examining the Relevance of STSE Using a Multi-Institutional Survey</i> Lisa Romkey	107. <i>Teaching delta-sigma signal conversion in an interfacing course</i> Witold Kinsner	95. <i>Integrative Activities for First-Year Engineering Students – Fuel Cell Cars as a Linking Project Between Chemistry, Mechatronics Concepts, and Programming</i> Carol Cw Hulls, Chris Rennick, Mary A Robinson, William Melek and Sanjeev Bedi	
4:40		90. <i>Flipping the Engineering Classroom</i> Nancy Nelson	102. <i>Gamification of Professional Development for First Year Engineering Students</i> Jason Bazylak	
5:00 - 5:30	FREE TIME			
5:30 - 8:30	WESTERN BANQUET			
	Location: Cross Zee Ranch (transport by bus)			

End of Day 3 Sessions ~ CEEA Conference

7:00 - 8:30	BREAKFAST: Restaurant Buffet, Radisson
8:30 - 9:30	KEYNOTE Wild Rose Ballroom, Radisson
	Twyla Hutchison, <i>CEEA 2014 Keynote Speaker</i>
9:30 - 10:00	BREAK

10:00 - 12:00 PAPER SESSIONS

Session (Room)	16. Integrated/Multidisciplinary Learning (Orchid)	17. Design II (Lady Slipper)	18. Accreditation/Outcomes IV (Arnica)
Chair	Debora Rolfes	Clif Johnston	Brian Frank
10:00	59. <i>Using the honours capstone course to enhance engagement across all stakeholders.</i> Zebb Prime, Will Robertson, Ben Cazzolato, Dorothy Missingham and Colin Kestell	92. <i>Teaching Engineering Accountability through Physical Prototyping</i> Richard Retzlaff, Richard Burton and David Torvi	88. <i>Scalability of a Graduate Attributes Assessment and Continuous Improvement Process</i> Steven Dew, Robert Driver, Glen Thomas, Mrinal Mandal, Phillip Choi and Robert Koch
10:20	75. <i>Finding Productive Intersections between Engineering and the Humanities</i> Lydia Wilkinson	131. <i>A Case Study of the Application of Human Factors in Capstone Engineering Design</i> Holly Algra and Clifton Johnston	73. <i>Mechanical Engineering Capstone Design Course – CEAB Accreditation Outcomes Assessment</i> Jacqueline Stagner and Jennifer Johrendt
10:40	78. <i>Situated Professional Communication: A Rhetorical Approach</i> Corey Owen and Debora Rolfes	121. <i>Humanitarian engineering education: Examples</i> Witold Kinsner	91. <i>Achieving Graduate Attributes Through Project-Based Learning</i> Nancy Nelson
11:00	104. <i>Developing Student Creativity in an Engineering Context</i> Ken Tallman	115. <i>Design of navigation and communications subsystems for a new UAV: a composite of capstone and research projects</i> Witold Kinsner, Stephanie English, Curtis Einarson, Bryan Drobot, Kelly Riha, Mohamed Nasri, Rafi M.B. Belal, Barry Prentice and Dale George	83. <i>Attribute 7 and Assessing Written Communication Skills in Engineering</i> Anne Parker, Kathryn Marcynuk and Roger Graves
11:20	105. <i>Offering Interdisciplinary Courses: the Why, the How and the What</i> Alidad Amirfazli, Murray Gingras, Wayne Renke and Linda Nostbakken	125. <i>What Constitutes a Multidisciplinary Capstone Design Course? Best Practices, Successes and Challenges</i> Kamran Behdinin, Remon Pop-Iliev and Jason Foster	
11:40		48. <i>A Visualization and Game Development Pipeline for Students</i> Andrew Roncin	



12:00 - 12:30	LUNCH: Wild Rose Ballroom, Radisson	
12:30 - 2:00	CEEA AGM and CEEA 2015 Introduction: Wild Rose Ballroom, Radisson	
2:00 - 3:00	CEEA Research Collaboration National Survey: Wild Rose Ballroom, Radisson	
3:10 - 5:00	INTERACTIVE SESSIONS II	
	SESSION B1 (Room: Orchid/Slipper)	SESSION B2 (Room: Arnica/Crocus)
	<i>Best Practices for Capstone Design Projects</i>	<i>Engineering Positive Space: Promoting Inclusivity</i>
	David Strong, Clifton Johnston, Antony Hodgson and Kamran Behdinan	Peter Weiss, Susan McCahan and Jason Bazylak

End of Day 4 Sessions ~ End of the CEEA 5th Annual Conference