

Minerva Summer Institute Objectives

1	To facilitate the process of industry, government, associations and academia working together with the ultimate aim of improving safety, health, environment
2	To enable educators to acquire safety, health environment and loss management knowledge, including available resources and how to incorporate topics in
3	To enhance industry, government and associations' awareness of ways to effectively assist universities with respect to resources and support in the field of
4	To provide a vehicle by which the Canadian Society for Chemical Engineering Process Safety Management subject division and Minerva Canada can support
5	To provide course work and SHE class teaching materials for integration into existing undergraduate courses; to present opportunities for new areas of
6	To encourage universities to commit to an implementation strategy on coverage of environment, health and safety topics into their teaching programs.

2012 Engineering Summer Institute Agenda

Item	Activity	Who	Time	Duration (Hr:Min)	Theme
1.0	Monday, May 28, 2012				
1.1	Welcome and Introduction to the 6 Themes	Tony Pasteris – Minerva Susan McCahan, Vice - Dean Undergrad University of Toronto	8:30 AM	0:15	
1.2	Instilling a Culture of Safety - in and out of the Workplace	Elizabeth Mills - WSPS Doug Reeve – University of Toronto	8:45 AM	1:00	Ethics
1.3	Break		9:45 AM	0:15	
1.4	Managing Occupational Health and Safety The fundamentals of health and safety that every engineer needs to know will be presented	V. Pakalnis - Queen's University	10:00 AM	0:45	SHE Management Systems
1.5	Worksmart e-campus: Worksmart is an e-learning tool for teaching health and safety; it comes with an e-test that can be used to confirm compliance with Graduate Attributes	Ryan Toole - Ontario Ministry of Labour	10:45 AM	1:15	SHE Teaching Practices and Research
1.6	Lunch		12:00 PM	1:00	
1.7	Electrical Safety in Canada The Electrical Safety Authority has developed an e-learning module that should be included in all first year electricity programs	Jennifer Robertson - Francis Hardy Electrical Safety Authority	1:00 PM	1:00	SHE Teaching Practices and Research
1.8	What industry taught me and what I would have wished for in my education	Luke Kittmer - NOVA Chemicals	2:00 PM	0:30	Engineering Design
1.9	Student Involvement and Design projects with Minerva	Tony Pasteris - Minerva	2:30 PM	0:30	SHE Teaching Practices and Research
1.10	Break		3:00 PM	0:30	
1.11	Responsible Care - A Global Initiative In 2006, the UN adopted a Responsible Care Global Charter for Chemicals Management; it covers the life cycle of a chemical from research through manufacture and transportation to the ultimate end product	Bob Masterson Vice President, CIAC	3:30 PM	0:45	SHE Management Systems Regulations, Codes and Standards
1.12	Process Safety Management PSM is the application of management principles to the	Rob Mickalowicz - Process Safety Manager ERCO Worldwide	4:15 PM	0:45	SHE Management Systems Regulations, Codes and Standards

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	identification, understanding and control of process hazards, to prevent incidents				
1.13	Wrap up	Tony Pasteris - Minerva	5:00 PM	0:10	
1.14	Reception and Dinner Upper Dining Room Faculty Club, University of Toronto 41 Willcocks Street	(South East Corner of Wilcox & Spadina; Between Harbord and College; Nearest parking is inside the Spadina Circle - pay and display)	5:10 PM	2:00	
1.15	After Dinner Speaker	George Griziotis Chief Prevention Officer, Ontario Ministry of Labour	7:10 PM	1:00	Regulations, Codes and Standards
2.0	Tuesday, May 29, 2012				
2.1	Workshop: Upper Year Modules What modules need to be introduced for upper year students?	Ana Popovic - Queen's University	8:30 AM	0:45	SHE Teaching Practices and Research
2.2	How I Teach Process Safety in a Capstone Course Lessons learned from teaching this material in a capstone course	Dave Mody - Queen's University	9:15 AM	1:00	SHE Teaching Practices and Research
2.3	Break		10:15 AM	0:30	
2.4	The Fundamentals of Robotics Safety How does industry teach Robotics safety, and what items need to be covered	Jim Van Kessel P.Eng. JVK Industrial Automation Inc.	10:45 AM	1:00	Engineering Design
2.5	Lunch		11:45 AM	1:00	
2.6	The 7 Deviations and How to Think about Hazard Identification A key part of engineering design is the design for upsets; The 7 deviations is a structured What If analysis	Graeme Norval University of Toronto	12:45 PM	0:45	SHE Teaching Practices and Research
2.7	What I learned about teaching undergraduate students at the University of Ottawa	Graham Creedy Retired from Chemistry Industry Association of Canada	1:30 PM	1:00	
2.8	Break		2:30 PM	0:30	
2.9	Workshop: Upper Year Modules What is needed to get more content into the Engineering curriculum	Ana Popovic - Queen's University	3:00 PM	0:45	SHE Teaching Practices and Research
2.10	Closing Remarks and Wrap Up Review of Summer Institute, and Opportunities for Improvement	Tony Pasteris - Minerva	3:45 PM	0:30	
2.11	Adjournment		4:15 PM		