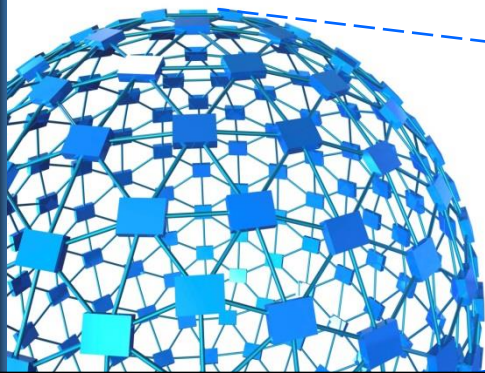


7th Annual INCOSE Great Lakes Regional Conference

Leadership Through Systems Engineering

Aerospace | Commercial | Defense | Health Care | Manufacturing | Academia

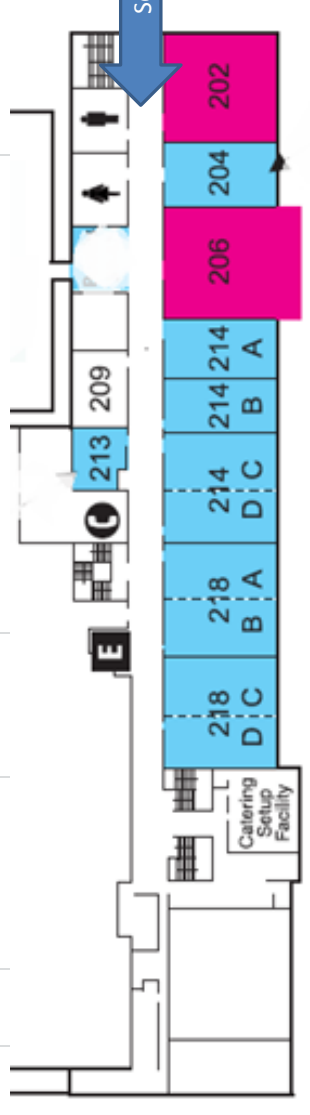
- The International Council on Systems Engineering--INCOSE www.incose.org--is a not-for-profit membership organization founded to develop and disseminate interdisciplinary principles and practices that enable the realization of successful systems.
- The 7th Annual INCOSE Great Lakes Regional Conference on Systems Engineering will be held at the Purdue University Stewart Center, W. Lafayette, IN, Oct 5-6, 2013.
- Join the premier systems-focused networking and educational Great Lakes Regional event for engineering practitioners, technologists, business leaders, educators, and students! You need not be a member of INCOSE to participate.
- Attend Systems Engineering (SE) presentations from its practitioners, including state-of-the-art descriptions across a diverse range of systems subjects, earning INCOSE CSEP PDUs for Conference and Tutorial attendance.
- Choose from multiple technical presentation tracks on systems engineering in industry, academia.
- Attend half-day tutorials on Pattern-Based Systems Engineering and Model-Based Systems Engineering.
- Hear from and talk with experts in two panel discussions on Systems Engineering Education and Systems Engineering Certification.
- Participate in formation of regional and global Working Groups and Challenge Teams for Biomed/Healthcare, Leaders and Systems, and Pattern-Based Systems Engineering.
- Who should attend?
 - Practitioners, leaders, and decision makers from the regional systems community, focused on systems processes, products, services, partnerships
 - Student and educators, preparing for or extending careers in a systems-oriented world
 - Last year's GLRC 2012 was attended by systems community members from 13 states, 50 companies and organizations, and 4 INCOSE chapters



Conference Program

Saturday, Oct 5		Event Locations			
Start	End	Stewart Center 202	Stewart Center 218A	Stewart Center 218B	Stewart Center 218D
7:00	7:30				
		Registration & Continental Breakfast			
7:30	8:15	Registration & Continental Breakfast			
8:15	8:30	Conference Opening Plenary: Stewart 214			
8:30	9:05		Session #1: System Effects Session Chair: Mike Celentano, Roche Diagnostics System Interactions: Making the Heart of Systems More Visible (Bill Schindel, ICTT System Sciences)	Session #2: The System Engineer's Toolbox Session Chair: Satwik Deshmukh, Cummins No Longer Condemned to Repeat: Turning Lessons Learned into Lessons Remembered (David Walden, Sysnovation LLC)	Session #3: SE and Product Development Processes Session Chair: Paul DeMond, USSI Creating an Agile Systems Engineering Technical Review Process (Jason Morris, George Washington University)
9:05	9:40		Identification of System Level Issues Through Data Analysis (Brian Ouellette, Cummins Inc)	Use Cases and Scenarios: Defining Systems from the User Perspective (Raymond Jorgensen, Rockwell Collins)	Rethinking Systems Engineering Process Models (Steven Walter, Indiana University-Purdue University Ft. Wayne)
9:40	10:15		Integrated FMEAs - A Key to Organizational Efficiency (John Gantt, Rolls-Royce)	Behavioral Economics and the Design of Systems Engineering Measures (Barday Brown, IBM)	Integrated Robust Engineering Workflow (Seth Sampathkumar, Cummins Inc)
10:15	10:30				
10:30	11:05		Session #4: SE and Innovation Session Chair: Mike Celentano, Roche Diagnostics Does Systems Engineering Stifle Creativity & Innovation? (David Walden, Sysnovation LLC)	Session #5: Implementing SE in Product Development Session Chair: Satwik Deshmukh, Cummins Organizational and Technical SE Challenges in the Auto Industry (George Walley, Ford Motor Company)	Session #6: Leadership Through Systems Engineering Session Chair: Paul DeMond, USSI System-Oriented Challenges and Opportunities for Leaders: An INCOSE Regional Working Group (Bill Schindel, ICTT System Sciences)
11:05	11:40		The Innovation Engine That Drives SE (Randy Iliff, Bjorksten bit 7)	Systems Engineering of the USAF Tanker Fleet: A View From the Program Executive Office (Thomas Lockhart, Deputy PEO for Tankers, USAF)	The Professional Systems Engineer: A Call to Project Leadership (Karl Koenig, Yoh Engineering Services)
11:40	12:10	Union West Faculty Lounge: Conference Luncheon			
12:10	12:25	Student Division Presentation			
12:25	13:00	Luncheon Keynote Address: Donald Burns, Rolls-Royce, plc			
13:00	13:35		Session #7: System Architecture and Architecting Session Chair: Richard Martin, Tinwisle What Are We Really Trying to Do? Architecturally Significant Requirements from History (Michael Vinardik, Booz Allen Hamilton)	Panel #1: Systems Engineering Certification Moderator: Dale Brown, Atkins Global Proposition and Challenges	Session #8: SE Application Case Studies Session Chair: Tom McKinley, Cummins On-Board Diagnostics Development: An Automotive Perspective (Justin Owen, Cummins Inc)
13:35	14:10		Managing Requirements in the Context of Architecture (Raymond Jorgensen, Rockwell Collins)	Panelists: David Hall - Hall Associates Barday Brown, IBM	Systems Engineering Models Applied to a Multi-Disciplinary Undergraduate Project Experience (Ashley Bemal & Scott Kirkpatrick - Rose-Hulman Institute of Technology)
14:10	14:45		Abstracting Views of System Architecture: Exploring Perspectives of Software Intensive System Design (Raymond Jorgensen, Rockwell Collins)	Steven Walter, Indiana University - Purdue University Ft. Wayne Russ Kubyscheck, EM Diesels	A Risk-Based Service Life Extension Program (SLEP) Approach to Operate Aging Aircraft Beyond Their Original Design Lives (Alan Pentz, George Washington University)

Saturday, Oct 5		Stewart Center 218A		Stewart Center 218B		Stewart Center 218D	
Start	End	Stewart Center 218A		Stewart Center 218B		Stewart Center 218D	
14:45	15:15	Afternoon Break Refreshments		Afternoon Break, Refreshments		Afternoon Break, Refreshments	
15:15	15:50	Session #9: System Complexity and Patterns Session Chair: Richard Martin, Timwisle		Panel #2: Systems Engineering Education Moderator: Bill Schindel, ICTT System Sciences		Session #10: SE and The Enterprise Session Chair: Tom McKinley, Cummins	
15:50	16:25	A View on Systems Engineering & Complexity (Chris Hoffman, Cummins Inc)		Panel Topic: Systems Engineering Education – Needs, Challenges, and Opportunities		Aligning Cultures - The Ironic Art of Successfully Managing Product Development Projects (Randy Iliff, Bjorksten bit7)	
16:25	17:00	Using Patterns to Manage Project Portfolios (Jason Sherey, ICTT System Sciences)		Panelists: Ashley Bernal, Rose-Hulman Institute of Technology Donald Gelosh, Worcester Polytechnic Institute Troy Peterson, Booz Allen Hamilton Rudy Smaling, Cummins, Inc.		Managing the Business Enterprise System - Expanding Architectural Frameworks to the Management of the Enterprise (William Donaldson, George Washington University)	
17:00	17:45	Tailoring Systems Engineering Processes for the Development of Complex Systems (Thomas Mellies, George Washington University)		Steven Walter, Indiana University - Purdue University Ft. Wayne			
17:00	17:45	Biomed/Healthcare Working Group: Stewart 204		Evening Break			
17:45	18:30	Union West Faculty Lounge: Cash Bar		Reception, Banquet, Dinner Keynote Address			
18:30	19:30	Dinner					
19:30	20:10	Dinner Keynote Address: INCOSE President Elect David Long					
Sunday, Oct 6		Stewart Center 214		Stewart Center 218AB		Stewart Center 218CD	
Start	End	Stewart Center 214		Stewart Center 218AB		Stewart Center 218CD	
7:30	8:00	Continental Breakfast		Breakfast			
8:00	10:00	Exhibits and Posters		Tutorial: Pattern-Based Systems Engineering - Part 1 (Bill Schindel, ICTT System Sciences & Troy Peterson, Booz Allen Hamilton)		Tutorial: Model-Based Systems Engineering - Part 1 (Steve Corns - Missouri University of Science & Technology)	
10:00	10:15	Morning Break Refreshments		Morning Break, Refreshments			
10:15	12:00	Exhibits and Posters		Tutorial: Pattern-Based Systems Engineering - Part 2 (Bill Schindel, ICTT System Sciences & Troy Peterson, Booz Allen Hamilton)		Tutorial: Model-Based Systems Engineering - Part 2 (Steve Corns - Missouri University of Science & Technology)	
12:00	13:00	Closing Box Luncheon		Lunch and Closing			
13:00	13:45	Exhibit Teardown					



-- Sessions are in Stewart Center

-- Saturday Lunch and Banquet are in Union



7th Annual INCOSE Great Lakes Regional Conference

Leadership Through Systems Engineering

• Leadership and Systems--Keynote Speakers:



Luncheon Keynote:
Donald Burns

- Rolls-Royce Head of Innovative Systems Engineering, **Donald Burns** will speak to the conference theme at his Saturday luncheon keynote address.
- INCOSE global President-Elect **David Long** will speak to the conference theme at his Saturday banquet keynote address.



Banquet Keynote:
David Long

• Leadership and Systems—Organizing a Regional Working Group:

- Attend a working group organizing session on advancing the capabilities of leaders of regional business and institutional organizations facing growing systems-related challenges and opportunities.

• Conference Registration, Meals, Hotel Accommodations:

- **Conference registration:** www.glr2013.eventbrite.com
- **One conference registration fee** covers Saturday continental breakfast, lunch, evening banquet meal (cash bar), Sunday continental breakfast, lunch, refreshments at breaks, all technical sessions, tutorials, and panels!
- **Hotel reservations:** For INCOSE Conference Blocks at two nearby hotels: see www.glr2013.eventbrite.com
- **Information:** www.glr2013.eventbrite.com or General Conference Chair, Bill.Schindel@incose.org

Conference Sponsors:



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Engineering Management