Risk Management WG

Presentation to INCOSE Chicagoland Chapter – 21May2020

Jack Stein, Co-Chair

www.incose.org/incose-member-resources/working-groups

Risk Management WG

Co-Chairs	Jack Stein / Bob Parro	**INCOSE Connect Address**	https://connect.incose.org/WorkingGroups/RiskManagement/Pages/Home.aspx
Number of Members	Over 200 worldwide	**INCOSE (Public) Web Page**	https://www.incose.org/ChaptersGroups/WorkingGroups/process/risk-management
Contact	Jack.stein@incose.org bparro@rivernorthsolutions.com	**Open Volunteer Positions**	YES! Please contact us: - Webinar and meeting planning - Budget planning & management - IT and Website admins - Future co-chairs / other positions

Fifty-three (53) Working Groups (WGs)

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Working Group	Leaders	Category
Agile Systems and Systems Engineering	Rick Dove / Ron Lyells / Larri Rosser	Transformational
Anti-Terrorism International	Bill Mackey	Application Domains
Architecture	R. Martin / A. Kumar / JL. Garnier	Process Enablers
Artificial Intelligence Systems	Thomas Shortell / Tom McDermott	
Automotive	Alain Dauron / Gary Rushton	Application Domains
MBSE Initiative	Mark Sampson	Transformational
MBSE Patterns	Bill Schindel / Troy Peterson	Transformational
Measurement	Paul Frenz	Process Enablers
Model-based Conceptual Design	Randall Satterthwaite / Robert Lecorchick	Transformational
Natural Systems	Curt McNamara / Randy Anway	Analytic Enablers
Competency	Cliff Whitcomb / Lori Zipes	Analytic Enablers
Complex Systems	Michael Watson / A.Raz / M. Do	Analytic Enablers
Configuration Management	Paul Nelson / Dale Brown / Adriana DSouza	Process Enablers
Critical Infrastructure Protection and Recovery	D. Eisenberg / J. Juhasz / A. Adebonojoa	Application Domains
Decision Analysis	Frank Salvatore / G. Parnell	Analytic Enablers
Object-Oriented Systems Engineering Method (OOSEM)	Howard Lykins	Transformational
Oil and Gas	Christopher Bellows / Alisha Pate	Application Domains
PM-SE Integration	Jean-Claude Roussel / Tina Srivastava / John	Process Enablers
Power & Energy Systems	Ray Beach	Application Domains
Process Improvement	Jeffrey Brown / J. Clark	Transformational
Defense Systems	Karl Geist	Application Domains
Digital Engineering Information Exchange	John Coleman / Frank Salvatore / Chris Schreiber	Transformational
Enterprise Systems	K. Nortrup / T. McDermott	Process Enablers
Global Earth Observation System of Systems (GEOSS)	Ken Crowder	Application Domains
Healthcare	Bob Malins / Chris Unger	Application Domains
Product Line Engineering	H. Chale / R. Darbin / C. Krueger	Analytic Enablers
Requirements	T. Katz / M. Ryan / R. Zinni / K. Orr	Process Enablers
Resilient Systems	John Brtis / Scott Jackson	Analytic Enablers
Risk Management	Jack Stein / Bob Parro	Process Enablers
SE in Early Stage Research & Development	A. Hodges / N. Lombardo / H. Hahn / M.	
Human Systems Integration	Guy Boy	Analytic Enablers
Infrastructure	A. Kouassi / L. Uden / M. van de Ven	Application Domains
Integration, Verification & Validation	Jim Armstrong / Russell Kubycheck	Process Enablers
Knowledge Management & Ontologies	Robert Nilsson / Jean Duprez	Transformational
Lean Systems Engineering	Arthur Hyde	Transformational
SE Tools Database	J. Nallon / S. Lacrampe / R. King	Transformational
Small Business Systems Engineering	Robinson/ Ptack/ Laporte/ Kaffenberger	Transformational
Social Systems	Erika Palmer / Randall Anway	
Soft Skills	Sean McCoy / J. Wojcika / C. Whitcomb	Transformational
Space Systems	David Kaslow / Alejandro Levi	Application Domains
System of Systems	Alan Harding / Judith Dahmann	Analytic Enablers
System Safety	Duncan Kemp / Meaghan O'Neil / Russell Kubycheck	Analytic Enablers
Systems and Software Interface	S. Sheard / N. Guertin / E. Kienast / J. Marvin	Transformational
Systems Engineering Case Study	Jorg Lalk	Analytic Enablers
Systems Engineering Quality Management (SEQM)	Barclay Brown / Bill Scheible / Hazel Woodcock	Process Enablers
Transportation	Dale Brown / Denis Simpson / Allison Ruggiero	Application Domains
Value Proposition Initiative	Juan Amenabar / Ken Harmon	
Value Strategic Initiative	Juan Amenabar / Ken Harmon	
Systems Science	J. Calvo-Amodio / J. Martin / S. Natarajan / A.	Transformational
Systems Security Engineering	Rick Dove / Keith Willett / Beth Wilson / Ken Kepchar	Analytic Enablers
Telecommunications	John Risson / D. Spencer / S. Ronning	
Tools Integration & Model Lifecycle Management	John Nallon	Transformational
Training	Gabriela Coe / John Clark	Analytic Enablers

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Agile Systems and Systems Engineering	Anti-Terrorism International	Architecture	Artificial Intelligence Systems	Automotive		MBSE Initiative	MBSE Patterns	Measurement	Model-based Conceptual Design	Natural Systems
✉ Rick Dove / Ron Lyells / Larri Rosser	✉ Bill Mackey	✉ R. Martin / ✉ A. Kumar / ✉ JL. Garnier	✉ Thomas Shortell / ✉ Tom McDermott	✉ Alain Dauron / ✉ Gary Rushton		✉ Mark Sampson	✉ Bill Schindel / ✉ Troy Peterson	✉ Paul Frenz	✉ Randall Satterthwaite / ✉ Robert Lecorchick	✉ Curt McNamara / ✉ Randy Anway
% Transformational	% Application Domains	% Process Enablers		% Application Domains		% Transformational	% Transformational	% Process Enablers	% Transformational	% Analytic Enablers

Competency	Complex Systems	Configuration Management	Critical Infrastructure Protection and Recovery	Decision Analysis		Object-Oriented Systems Engineering Method (OOSEM)	Oil and Gas	PM-SE Integration	Power & Energy Systems	Process Improvement
✉ Cliff Whitcomb / ✉ Lori Zipes	✉ Michael Watson / ✉ A.Raz / ✉ M. Do	✉ Paul Nelson / ✉ Dale Brown / ✉ Adriana DSouza	✉ D. Eisenberg / ✉ J. Juhasz / ✉ A. Adebonojoa	✉ Frank Salvatore / ✉ G. Parnell		✉ Howard Lykins	✉ Christopher Bellows / ✉ Alisha Pate	✉ Jean-Claude Roussel / ✉ Tina Srivastava / ✉ John	✉ Ray Beach	✉ Jeffrey Brown / ✉ J. Clark
% Analytic Enablers	% Analytic Enablers	% Process Enablers	% Application Domains	% Analytic Enablers		% Transformational	% Application Domains	% Process Enablers	% Application Domains	% Transformational

Defense Systems	Digital Engineering Information Exchange	Enterprise Systems	Global Earth Observation System of Systems (GEOSS)	Healthcare		Product Line Engineering	Requirements	Resilient Systems	Risk Management	Sys Early Stage Research & Development
							✉ T. Katz / ✉ M. Ryan / ✉ R. Zippl	Scott Jackson	✉ Jack Stein / ✉ Bob Parro	✉ A. Hodges / ✉ N. Lombardo / ✉ H. Hahn / ✉ M.
									% Process Enablers	

Risk Management WG

One of 53 INCOSE WGs

You can join as many as you like

Small Business Systems Engineering	Social Systems	Soft Skills	Space Systems
✉ Robinson/ ✉ Ptack/ ✉ Laporte/ ✉ Kaffenberger	✉ Erika Palmer / ✉ Randall Anway	✉ Sean McCoy / ✉ J. Wojcika / ✉ C. Whitcomb	✉ David Kaslow / ✉ Alejandro Levi
% Transformational	%	% Transformational	% Application Domains

% Analytic Enablers	% Analytic Enablers	% Transformational	% Analytic Enablers	% Process Enablers			Value Proposition Initiative	Value Strategic Initiative
						✉ Dale Brown / ✉ Denis Simpson / ✉ Allison Ruggiero	✉ Juan Amenabar / ✉ Ken Harmon	✉ Juan Amenabar / ✉ Ken Harmon
						% Application Domains		

Systems Science	Systems Security Engineering	Telecommunications	Tools Integration & Model Lifecycle Management	Training
✉ J. Calvo-Amodio / ✉ J. Martin / ✉ S. Natarajan / ✉ A.	✉ Rick Dove / Keith Willett / Beth Wilson / Ken Kepchar	✉ John Risson / ✉ D. Spencer / ✉ S. Ronning	✉ Gabriela Coe / ✉ John Clark	✉ John Nallon
% Transformational	% Analytic Enablers	% Transformational		% Analytic Enablers

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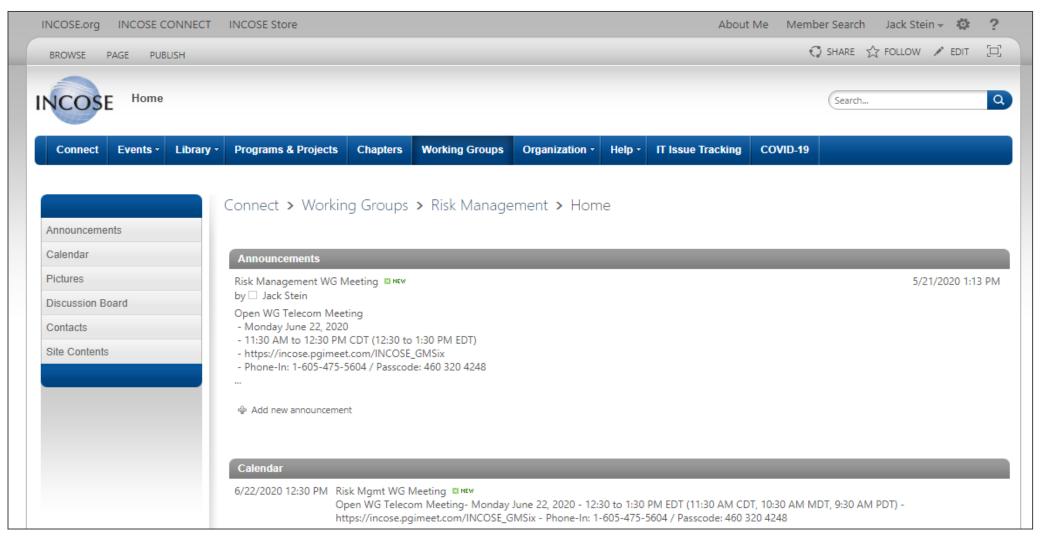

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Transformational   Application Domains   Analytic Enablers   **Process Enablers**

Architecture   Configuration Management   Measurement   PM-SE Integration   Requirements   **Risk Management**   Systems Engineering Quality Management

Risk Management

Mission & Objectives

1. PURPOSE AND MISSION
   The purpose of the INCOSE Risk Management Working Group (RMWG) is to advance knowledge, common understanding, and quality of practice of risk and opportunity management in the systems engineering community worldwide. Our mission is to develop value-added technical products and participative activities which help INCOSE members effectively and efficiently implement risk and opportunity management.

2. GOALS AND OBJECTIVES
   The goals and initiatives of the RMWG are to:
      A. Provide a forum for INCOSE risk management practitioners to present research and analysis results, discuss problems, and put forth improvement ideas.
      B. Establish and maintain a process for collecting and consolidating input to be used for updating the INCOSE Handbook risk and opportunity management sections
      C. Generate specific work products for consideration as input to the INCOSE Handbook, SEBoK, International Standards, and others.
      D. Develop and maintain a presentation explaining the benefits of risk and opportunity management, which can be used by members for promoting the application of risk and opportunity management practices.

NOTE: The INCOSE Risk Mgmt WG is currently coordinating an INCOSE review of the 1st Committee Draft (CD1) of the 3rd edition of International Standard ISO/IEC/IEEE 16085 (Risk Management). INCOSE members are welcome to participate. See details below in the "Working Group Products" section.

Leadership

- Jack Stein, Co-Chair (jack.stein@me.com)
- Bob Parro, Co-Chair (bparro@rivernorthsolutions.com)
- Paul Heininger, ISO/IEC/IEEE 16085 Co-Editor (paul.heininger@outlook.com)

INCOSE Connect Site (Accessible by all INCOSE members)

Visit https://connect.incose.org/WorkingGroups/RiskManagement/Pages/Home.aspx

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WG Charter

1 **Purpose**
Advance knowledge, common understanding, and quality of practice of risk and opportunity management in the systems engineering community worldwide.

2 **Goals**
(A) Provide a forum for INCOSE risk management practitioners to present research and analysis results, discuss problems, and put forth improvement ideas. (B) Collect and consolidate input for updating the INCOSE Handbook risk/opportunity mgmt. sections. (C) Generate specific work products for consideration as input to the INCOSE Handbook, SEBoK, International Standards (e.g., ISO/IEC/IEEE 16085), and others. (D) Develop and maintain a presentation explaining the benefits of risk and opportunity management, which can be used by members for promoting the application of risk and opportunity management practices.

3 **Scope**
Risk and opportunity management for systems and software engineering.

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Example Published Products

- Risk Management section of the INCOSE Systems Engineering Handbook

- Input and review of ISO 15288 clauses pertaining to Risk Management

- International Standard ISO/IEC/IEEE 16085 (Systems and software engineering — Life cycle processes — Risk management). Our WG is provides Project and Co-Editors support

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Dates to Note

- Next Risk Management WG Meeting
  – Monday June 22, 2020
  – 11:30 AM to 12:30 PM CDT (12:30 to 1:30 PM EDT)
  – https://incose.pgimeet.com/INCOSE_GMSix
  – Phone-In: 1-605-475-5604 / Passcode: 460 320 4248

- Monthly INCOSE TechOps Meetings
  – Third Monday of each month / 11:00 AM to 12:00 PM CDT
  – For WG Leaders (by invitation from TechOps Director, David Endler)

- INCOSE Annual International Workshop (IW) 2021
  – January 29 - 31, 2021
  – Seville, Spain
  – Website: https://www.incose.org/IW2021

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Questions ? Questions ?

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