

## **TUTORIAL 1: Integrating a Science-Informed Strategic Risk Communications Approach to Achieve Effective Systems and Security Lifecycle Management**

Description: Success in systems management depends on the design, adoption, and implementation of effective management plans and processes. Projects often fall short of achieving their goals because the structured technical elements of a project are not aligned with the less structured values, needs, interests and priorities of team members and others who determine project success through their judgments, decision making and behavior. This workshop is designed to introduce the state-of-the-science concepts and practices of Strategic Risk Communications as a systematic approach for understanding and influencing judgment, decision making and behavior to more reliably assure project success. Strategic Risk Communications is an essential component of an integrated risk management approach yet is frequently overlooked or discounted by engineering and technically oriented managers. The workshop is intended for anyone responsible for achieving operational excellence through management or analysis of organizational risk and resiliency throughout the systems and security lifecycles, including systems engineers, security engineers, project managers, executives, and policy makers. Participants will be introduced to the key elements of Strategic Risk Communications practice and its application as a part of structured risk management processes such as ISO-31000 and CSA-Q850. Case studies will be discussed and participants will be provided templates to enable integration of Strategic Risk Communications into their projects. At the conclusion of the course, participants will be able to identify a value case for integrating Strategic Risk Communications as well as design an integrated risk and resiliency management approach that makes effective use of the Strategic Risk Communications methods and tools appropriate to the nature of the risks to be addressed.

**Date and Time: Sunday, October 25th 1:00 PM – 5:00 PM Eastern Time (4 Hours)**

**Price: \$200 – 10 People Min**

Instructor:

Dan Kovacs, PhD - [dkovacs@decisionpartners.com](mailto:dkovacs@decisionpartners.com)

Senior Researcher

Decision Partners, LLC

## **TUTORIAL 2: Using Coaching to Improve Resiliency of Systems and Services**

Description: Resiliency is an emerging necessity in modern society! Project Team, Companies, Cities, and Nations are trying to make their systems more resilient (bouncing back) when events occur (project delays, failed tests, cyberattacks, blackouts, pandemics, financial crashes, storms,...) Bouncing back from known threats are tough and technology can help, but bouncing back from unknown threats is even more difficult, and people are needed more than ever in this case. Helping Humans in organizations and societies to be more resilient requires them to learn traits that promote resiliency, especially leadership Coaching. This tutorial will provide attendees an opportunity to learn and practice coaching first hand, and understand how it fits into Systems and Security projects.

**Date and Time: Sunday, October 25, 2015 8:30 AM - 12:30 PM Eastern Time (4 Hours)**

**Price: \$200 – 6 People Min**

Instructor:

Sherry Greenleaf, RCC™ CLC

Registered Corporate Coach™ Instructor

[www.impact-dev.com](http://www.impact-dev.com)

## **TUTORIAL 3: Systems and Security Leadership Skills to Build Resilient Organizations**

Description: For mid-career engineers and entry-level managers, leadership skills and competencies are crucial elements to effectively compose, manage and lead their teams. Going beyond entry-level engineering design tasks, competencies must address group leadership, integration, delegation and adherence to project schedules. Addressing systems-level engineers and managers, this course addresses challenges around System life cycle performance, Systems legacy issues, Deviations from system intended use, System emergent behaviors, Visualization of non-linear cause-effect networks, as well as Establishing criteria for, and transparency of decision making. This course addresses the above deficiencies from a holistic perspective, accounting for issues in communications, teamwork across discipline and geographic borders, and project / design status visualization.

Objective: The workshop's objectives include the exposure to and awareness of systems concepts on a group level (such as environmental issues, the presence of systems, identifying the complexity and dynamics of systems, the impacts of systems thinking on social, environmental and economic quality of life), Identification of strategies and weaknesses in current problem solving strategies on a group level, Articulation of the importance of leadership skills in multi-disciplinary and geographically distributed teams, and the active development of organizational health concepts for participant-proposed real workplace scenarios (emphasizing engineering content, management skills and transparent decision-making).

Expected outcomes: After the conclusion of this workshop, the participants will be able to develop strategies how to overcome performance-limiting parameters in groups, develop tactical plans to execute these strategies, and create a workplace environment thriving on the cultural diversity in teams and lead project / development teams.

**Date and Time: Sunday, October 25, 2015 8:30 AM - 5:30 PM Eastern Time (8 Hours)**

**Price: \$300 – 30 People Min**

Instructors:

Franz-Josef Kahlen - University of Cape Town, South Africa - [fj.kahlen@uct.ac.za](mailto:fj.kahlen@uct.ac.za)

Shannon Flumerfelt - Oakland University, MI - [flumerfe@oakland.edu](mailto:flumerfe@oakland.edu)

Anabela Alves - University of Minho, Portugal - [anabela@dps.uminho.pt](mailto:anabela@dps.uminho.pt)

## **TUTORIAL 4: Using Model Based Systems Engineering to Architect Highly Secure and Resilient Systems**

Description: Model Based Systems Engineering (MBSE) is at the forefront of required skills for Systems and Security Engineers. This workshop will demonstrate the basics of MBSE using examples from the world of threat vector modeling required for highly resiliency systems.

**Date and Time: Sunday, October 25, 2015 8:30 AM - 12:30 PM Eastern Time (4 Hours)**

**Price: Free**

Instructors:

Dr. Darius Silingas

Dr. Saulius Pavalkis

Jason Wilson [jason@nomagic.com](mailto:jason@nomagic.com)

Tim Anderson

NoMagic Corporation