

The Integrator

INCOSE North Star Chapter



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North Star Newsletter

INCOSE North Star Newsletter Communication

This year's newsletter has featured a series of articles on INCOSE Working Groups. The December article, the last in the series is on the Systems Science Enabler Group.

Eileen Arnold, Editor, BAE Systems



Systems Engineering at its Best!

INCOSE's Systems Science Enabler Group

Systems Science is the theoretical foundation of systems engineering, including, but not limited to, system concepts, systems thinking, complexity theory, system dynamics, agent-based and modelling. Systems Science provides information about emerging knowledge towards improving the practice of systems engineering, and principles and guidelines for better analysis, execution of programs, uncertainty (opportunity as well as risk) management, tool selection, and development of systems engineering process, to name a few.

Systems Science falls under the "enabler" row of the INCOSE Technical Leadership Team technical matrix, Figure 1 (next page). The Systems Science Enabler Group (SSEG) was formed at the INCOSE Symposium in July of 2005. The SSEG focus is on complex systems engineering.

The WG is currently developing essays for a special issue of INCOSE INSIGHT on complex systems engineering due out in January 2008.

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Chapter President's Corner

Elliot Abrons, BAE Systems

I am pleased to announce the results of our recent election:

Co-President Elect: John Palmer and Neill Radke

Treasurer: Mark Elpers

Secretary: Bob Hunter

Director of Academia/Government: Eileen Arnold

In addition John and Neill will serve as Co-Presidents for 2008, filling in for Doug Dasgupta who's working out of town.

In today's environment, when we all have so many demands on our time, having two leaders will provide our chapter a level of leadership necessary to address the needs of our members. Both John and Neill are past presidents of the North Star Chapter and teach Systems Engineering courses at the college level. With John and Neill at the helm, I am confident that the North Star Chapter will provide our members with-notch speakers for our monthly meetings, tutorials providing take-home knowledge and skills, and opportunities through the international organization to participate in defining how our profession will evolve over the next decade.

North Star Chapter Website

<http://www.incose.org/northstar>

2008 Meeting Calendar

10 January

Technical Management

**Dave
Walden**

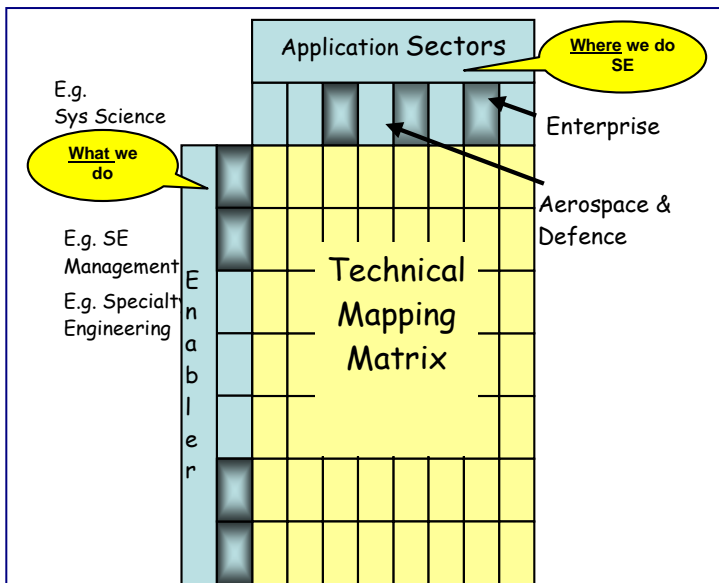


Figure 1. Technical Matrix

The following titles and their authors are a superset of what you can look forward to in the next issue of INSIGHT!

Dupnick	Tools and Techniques for Analyzing Complex System's Characteristics
Martin	Using the PICARD Theory of Systems to Facilitate Better Systems Thinking
Dickerson	Towards a Logical and Scientific Foundation for System Concepts, Principles, and Terminology
Schindel	What is the Smallest Model of a System?
Jackson	Complexity, Emergence and Catastrophes
Honour	Connecting an Architecture with its Emergent Properties
Honour	Systems Engineering and Complexity
Carlens	Role of Processes and Standards in Limiting Progress in SE -- What Are the Right Standards for a Complex System?
Ferris	Ethnic Culture and Systems Engineering Process
Sheard and Hybertson	Integrating and Unifying Old and New SE Elements
Sheard	Is INCOSE a Complex System?
Norman and White	Asks the Chief Engineer: "So what do I go do?!"
Workinger	Architectural Patterns in Systems of Systems
Schoening	Boundaries
Hayenga	COMPLEX and COMPLICATED Systems Engineering
Ryan	Emergence in Systems Engineering
Cook	The Science of Systems Engineering and the Engineering of Complex Systems

Four SSEG essays have already been published in previous INSIGHT issues. The active group of 86 members has generated 54 additional ideas for essays.

Visit our Public Website @ URL:
<http://www.incose.org/practice/techactivities/>
 Chair: Brian E. White bewhite@mitre.org
 Co-Chair: Sarah A. Sheard sheard@3MiiSys.Com

WELCOME, NORTH STAR NEW MEMBERS!

Name	Company	Title
Todd Berry	LMCO	SE
Katrina Bower	LMCO	Project Engineer
Molly Clare	GD - AIS	Ld. Systems Engineer
John Gnazzo	BAE Systems	Staff Systems Engineering
Anne Guldberg	LMCO	Logistics Engineer Asc.
Julie Jamieson	GD - AIS	Technical Manager - Systems
Kelly Kanz	LMCO	SE
Mark Karraker	LMCO	SE
Steve Koltos	LMCO	SE
Thomas Land	GD	Engineer
Scott Lechtenberg	LMCO	Systems Engineer Manager, Assoc.
James McCrary	LMCO	System Engineer
Michael Moen	MTS Systems	Sr. Mechanical Engineer
Greg Patzman	LMCO	SE
Porter	GD - C45	SE
Lynn Radtke	Medtronic Inc.	Manager Strategic Systems Reliability
Leonard Schaenzer	Medtronic Inc.	SE
Schuster	GD	System Engineer
Vitko	LMCO	Systems Integration
Wagner	GD - AIS	Lead Systems Engineer

