Michigan Chapter Dinner Meeting
Monday, June 19, 2017
5:00 p.m. – 8:15 p.m.

Win an Autographed Book Door Prize! 50% Discounts!

Eric Rebentisch, Editor-in-Chief
Integrating Program Management and Systems Engineering
Methods, Tools, and Organizational Systems for Improving Performance

WILEY
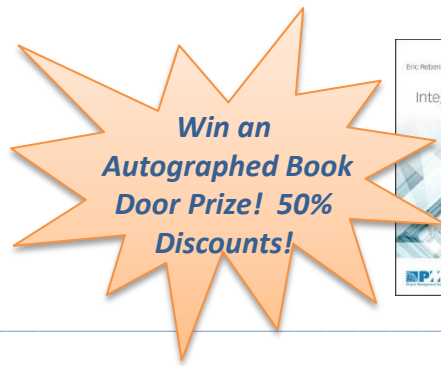
Integrating Program Management and Systems Engineering

PMI-INCOSE-MIT Alliance Team Co-Leaders

Eric S. Rebentisch, Lead Researcher, MIT CEPE
Randall C. Iliff, Founder/Principal, Eclectic Intellect, LLC
Stephen Townsend, PMI Director of Network Programs

P3 Mobility Innovation Center

25650 W. 11 Mile Road

Southfield, MI 48034

Parking provided in P3 employee lot at no cost.

Program:

5:00 Doors Open / Badge & Drink Ticket Pick-up
5:30 Appetizers & Dinner / P3 Guided Tours
6:45 Announcements / Door Prize Drawings *
7:00 Featured Presentation (by live Webinar feed)
8:00 Closing Remarks / Bookstore **
8:15 Adjourn

Appetizers and Italian foods from Primi Piatti Market

* Door Prize: Two autographed copies of "Integrating Program Management and Systems Engineering" by E. Rebentisch.
** Approximately 20 autographed copies of the book will be offered for sale at 50% off INCOSE/PMI member price ($39).

On-Line Pre-Registration Required!

$ 10	INCOSE Members
$ 10	PMI-GLC Members
$ 15	INCOSE CAB & Affiliates
$ 20	Non-Members
$ 5	Students (Full-Time)
$145	Join INCOSE & Attend Free
$ 38	Students, Join INCOSE & Attend Free

$10 Special Guest Price!

PMI. Great Lakes Chapter

Register to Attend
https://incose-mi-19june2017.eventbrite.com

- Can't attend in person? Register at above link to attend INCOSE Webinar #100 virtually (7-8pm). PMIGLC Members please indicate "PMIGLC Member" in the WebEx registration form.

Event Sponsor

P3

The P3 Mobility Innovation Center is a modern 25,000 sq. ft. facility focused on R&D and implementation of automotive technologies and organizational services required to support the changing needs of the N. A. automotive market. <u>TECHNOLOGY</u>: **Autonomous Driving:** ADAS, V2XS, Simulation, Rapid Prototyping, ISO26262. **Connectivity:** Bluetooth, Android, Auto/Carplay, Wi-fi. **Emobility:** Alternative Powertrain, Charging Infrastructure. **Telematics:** Mobile Apps, UX, Remote Services, eCall. <u>ORGANIZATIONAL</u>: **Shift to Software Systems:** SE, PM. **Global Platforms:** Strategy, Process, Organization. **New Business Models:** Strategy, Joint Ventures. **E2E PD:** IT-based Service, Supplier Management, Big Data. (www.p3-group.com)

Featured Presentation
(by Interactive Live Feed, INCOSE Webinar No. 100)

Integrating Program Management and Systems Engineering
(Eric S. Rebentisch, Randall C. Iliff, and Stephen Townsend)

Abstract

One major effort of the INCOSE alliance with MIT and PMI has been to develop a book incorporating research our organizations have supported over the past three years focused on the integration of systems engineering and project/program management practices. In addition to research, alliance members contributed knowledge of the field, existing tools and standards, and a wealth of practical experience. Thanks to generous contributions by many INCOSE members, as well as our alliance colleagues at PMI and MIT, this important new work is now becoming available to the world.

> *Integrating Program Management and Systems Engineering* is available through the INCOSE and PMI bookstores. Members can purchase the book at a 25% discount. Additional information about the book and how to purchase it is provided on the last page of this Flyer.

Integrating Program Management and Systems Engineering offers a valuable resource for anyone involved in developmental effort, and presents a framework for understanding how these elements combine to improve programs throughout their life-cycle. It uses case studies and acknowledged best practices to show the practical, real world application of the framework. A key contribution of this book is practical guidance on tools, processes, capabilities and structures that enable effective integration between program management and systems engineering. Please join as the lead representatives from each alliance organization introduce the background behind this work, overview the contents, and share their vision for opportunities that the book creates.

Speaker Biographies

Eric S. Rebentisch is Lead Researcher at MIT's Consortium for Engineering Program Excellence (CEPE). He has a Ph.D. in Management of Technological Innovation from MIT, a Master's degree in Organizational Behavior from Brigham Young University, and a B.S. in Aerospace Engineering from California State Polytechnic University. He has taught Master's level and continuing education courses on Six Sigma, Lean Product Development, Lean Enterprise, and Research Methods

A frequent presenter/lecturer, his major areas of research include High Performance Enterprise Product Development, Lean Product Development, Lean Project Management, Enterprise Change Management, and System Architecting and Development Strategies. He is editor of "Integrating Program Management and Systems Engineering" and author of numerous other publications. He has played key roles in analysis, policy recommendations, and transformation initiatives within the US and other governments.

Featured Presentation

Integrating Program Management and Systems Engineering

(Eric S. Rebentisch, Randall C. Iliff, and Stephen Townsend)

Speaker Biographies (cont.)

Randall C. Iliff has over 35 years' experience on developmental efforts ranging in size from a few thousand to billions of dollars. Both a seasoned Program Manager and expert Systems Engineer, he has a solid record of disruptive innovation in aerospace, medical, commercial and consumer markets. Mr. Iliff is currently founder and principal at Eclectic Intellect, LLC where he specializes in helping clients implement and improve innovation processes.

Before founding Eclectic Intellect, he was Vice President at the award-winning product development firm bb7, served as Systems Engineering Manager for IceCube - a University of Wisconsin led cubic kilometer scale neutrino telescope at the South Pole, an Engineering Manager at Motorola Government Electronics Group, a Program Manager / Senior Systems Engineer at Martin Marietta Denver Aerospace, and a junior member of the "skunkworks" Advanced Development Group at McDonnell-Douglas Astronautics.

Mr. Iliff holds a BS in Engineering / Industrial Design from Michigan State University, and an MS in Systems Management, Research and Development from the University of Southern California. Mr. Iliff has significantly contributed to both PM and SE practice capabilities. He is a charter member of the International Council on Systems Engineering (INCOSE) and currently serves as the INCOSE representative on an alliance between INCOSE, PMI, and the MIT Consortium for Engineering Program Excellence. In February of 2017 that alliance published "Integrating Program Management and Systems Engineering: Methods, Tools and Organizational Systems for Improving Performance". This work explains based on research, and illustrates through case studies, why the quality of integration between PM and SE is so critical to program outcome.

A frequent speaker, Mr. Iliff has developed and conducted thousands of hours of training covering all aspects of product development, particularly integrating Systems Engineering and Program Management. He is the developer, subject matter expert and master instructor for several PMI accredited courses. Thousands of people have attended his classes, thousands more have heard his ideas on development during keynote / featured speaker presentations.

Stephen Townsend is PMI's Director for Network Programs. In this capacity, he leads special program initiatives, including development of a practice guide on agile methods; and a book on the integration of program management and systems engineering with the International Council on Systems Engineering and MIT's Consortium on Engineering Program Excellence (CEPE). He is also working with PMI's U.S. government relations team to plan for implementation of the Program Management Improvement Accountability Act.

Stephen has worked within PMI since 1999 in the areas of member services; chapter/community relations; business/government relations; and PMI's global development activities. He has over 30 years of experience in non-profit leadership and management, including staff roles in such associations as:

- Food Marketing Institute
- American Association for Marriage and Family Therapy
- National Community Mental Healthcare Council
- Clinical Laboratory Management Association
- Society of Cable Telecommunications Engineers
- Institute of Management Accountants

Stephen has also consulted with associations on their global development and community strategies. He is a long-term member of and volunteer within the American Society of Association Executives.

Learn From the World's Top Performing Engineering Programs

Eric S. Rebentisch, Editor-in-Chief of *Integrating Program Management and Systems Engineering*, is Lead Researcher at MIT's Consortium for Engineering Program Excellence (CEPE), and a co-leader of the PMI-INCOSE-MIT Strategic Alliance.

Integrate Critical Roles to Achieve Engineering Project/Program Performance Excellence

Integrating Program Management and Systems Engineering shows how organizations can become more effective, more efficient, and more responsive, and enjoy better performance outcomes. The discussion begins with an overview of key concepts, and details the challenges faced by System Engineering and Program Management practitioners every day. The practical framework that follows describes how the roles can be integrated successfully to streamline project workflow, with a catalog of tools for assessing and deploying best practices.

Complex engineering systems are prone to budget slips, scheduling errors, and a variety of challenges that affect the final outcome. These challenges are a sign of failure on the part of both management and technical leaders, but can be overcome by integrating the roles into a cohesive unit focused on delivering a high-value product. *Integrating Program Management and systems Engineering* provides a practical route to better performance for your organization as a whole.

The integration of management and technical work paves the way for smoother projects and more positive outcomes. This book describes the integrated goal, and provides a clear framework for successful transition.

- Overcome challenges and improve cost, schedule, and technical performance
- Assess current capabilities and build to the level your organization needs
- Manage risk throughout all stages of integration and performance improvement
- Deploy best practices for teams and systems using the most effective tools

Several case studies throughout the book describe what happens when Program Management and Systems Engineering are not integrated, as well as how real-world companies have successfully implemented the framework to improve cost, schedule, technical performance, and coverage of risk management. Case study examples also show how you can ensure the success of your organization's own integration journey. Case studies in the book include:

- F/A-18E/F Super Hornet Program
- BMW's Engineering Department
- Future Combat Systems
- The Hubble Telescope Program
- Denver International Airport Baggage Handling
- The Heathrow Terminal 5 Program
- The International Space Station
- Lockheed Missiles and Space Company
- Volkswagen Emissions Scandal
- US Government Acquisition Programs
- Boston's Big Dig Megaproject
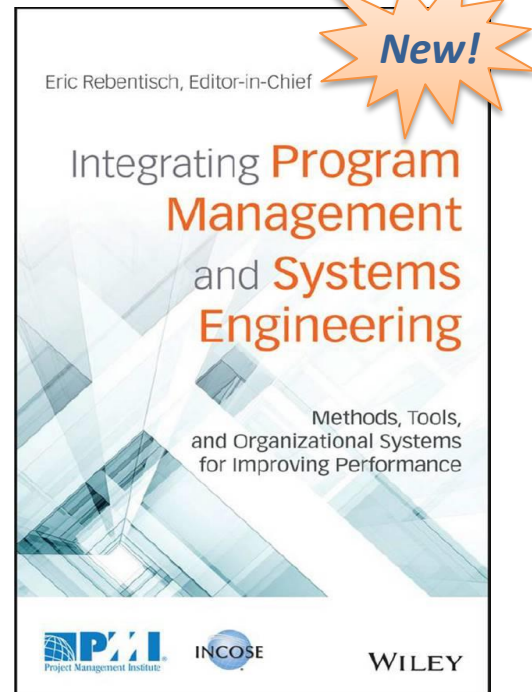
PMI and INCOSE Members Only! Purchase *Integrating Program Management and Systems Engineering* at a 25% discount!

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