

NE INCOSE Member Meeting

May 17th, 2022

Virtual Only
incosenewengland@gmail.com



- **6:00 – 6:45 Chapter Business**
 - Introductions
 - 2022 INCOSE NE Chapter Organization and Committees
 - 2022 Operating Plan highlights
 - New Member Introductions

- **6:45 – 7:30: Guest Speaker**
 - *“The Benefits of a Systems Engineering Approach: How to reduce risks and improve performance in medical device development”* by **Dr. Phillip Palmer, Sunrise Labs**

- **7:30 – 8:00: Q & A / Wrap Up**

2022 Chapter Leadership Team



President

Madhu Rao, Ph.D.
Belcan Engineering, LLC



Vice President

Haifeng Zhu, Ph.D.
Smart Machinery Lab



Treasurer

Rachel McGrath
Raytheon (P&W)



Secretary

Michael Tymms
Vicarious Surgical Inc.



Past President

Eric Dano, Ph.D.
BAE Systems



Director

Amy Thompson, Ph.D.
UConn, UTC IASE



Director

Randy Skelding
Raytheon (P&W)



Director

Jim Garman
Sikorsky Aircraft



Director

Daniel Burbank
Collins Aerospace



Director

Dave Finigan
BAE Systems



Director

Bao Truong, Ph.D.
Malta Inc.



Director

Peter Huie
WPI



Director

Stephen Nichols
Schindler Elevator Corp.



Director

Diane Alsing
Strategic Global



Director

Brian Sheehan
Draper Labs

Operations Committee

Madhu Rao, Chair

Eric Dano, Past President & BoD Chair

Haifeng Zhu, VP/President Elect

Amy Thompson, Advisor

Rachel McGrath, Treasurer

Mike Tymm, Secretary

Bao Truong, Director

Vision: Plan and organize chapter operations. Create strategic and operations plans. Communicate and coordinate with Directors through BOD. Coordinate execution with committees. Report back to INCOSE national. Manage chapter finances.

Regular Meeting Times: 1st Tuesday of each month at 6:00pm, open to all members

Membership Committee

TBD, Chair

Peter Huie

Jim Garman

Daniel Burbank

Vision: Serve current membership. Recruit new members. Serve all industry sectors and states. Perform direct and indirect outreach to members. Collect information about how we can better serve. Member categories: existing members, new members, CAB members, university members.

Regular Meeting Times: 3rd Thursday of each month at Noon, open to all

Programming Committee

TBD, Chair

Eric Dano, Past President & BoD Chair

Ed Medri

Randy Skelding

Brian Sheehan

Vision: Plan high quality events throughout the year that engage all chapter members based upon regular input and feedback from the membership.

Regular Meeting Times: 3rd Thursday of each month at 6:00pm, open to all

Certification, Training & Workforce Development

Randy Skelding, Chair

Rich Powers

Dave Finigan

Chris Massa

Bao Truong

Vision: Plan high quality training events throughout the year for members that help them achieve their professional development goals. Offer ASEP-CSEP

Communications

Mike Tymm, Chair

Peter Huie

Amy Thompson

Stephen Nichols

Vision: Communicate effectively with members of the chapter and INCOSE international. Communication methods should support all other committee goals and members should coordinate with other committees to send and receive their messages. Maintain chapter records.

2022 Operating Plan Highlights

- 2022 Operating Plan, Budget Review & Approval – February 2022 ([Fri 3/18](#))
- BoD Indoctrination / Training – February 2022 ([Thu 3/24](#))
- Outreach initiatives by officers and BoDs to chapter members for increased participation and engagement ([April](#))
- Monthly newsletter ([April](#))
- Recurring Meetings:
 - Monthly Operations meeting ([2nd Tue](#))
 - Monthly member meetings ([3rd Tue](#))
 - Quarterly BoD meetings ([Middle month, 2nd Tue](#))
 - Monthly committee meetings
- 2022 Events – SEP Cert Training, Student Poster, Fall Workshop

INCOSE New England Chapter Outreach (Rao)

Objective & Goal: Chapter leadership to reach out to chapter members and discuss the value proposition on greater engagement with INCOSE NE including participation at the member meetings, participation with the five chapter committees and potential opportunities for leadership.

INCOSE New England Fall Workshop - Planning

- Event proposal: Workshop + student poster session; Hybrid
- Timing: Thu & Fri Oct 27th and 28th (tentative)
- Theme: WIP

2022 New Members (+27)

- Ertan Ergezen
- Lewis Malaver
- Hanning Wong
- Jon Hodge
- Preston Wilkey
- Rodervin Urena
- Steven Thorwarth
- Geoffrey Lichtenheim
- Danielle Conneely
- Alexander Moon
- Brianne Hirschfeld
- Natasha Berner
- Mostafa Elshibiny
- Brian Baillie
- Lou Palecki
- Randy Mocadlo
- Andrew Hanshaw



Welcome to INCOSE New England!!

- Maxwell Brown
- Samuel Felton
- Lew Cote
- Scott Morris
- Todd Jackson
- Greer Koerner
- David Fontaine
- Rahmeh Fares
- Michael Shatz
- Sasha Smiljanic
- Matteo Pietrobelli

2022 Guest Speakers

Month	Guest Speaker	Organization	Title / Topic
Jan	Dr. Don Gelosh	WPI	INCOSE Professional Development Portal Initiative
Feb	Paul White	BAE Systems	Building the Digital Engineering Workforce of the Future
Mar	Cameron Hendricks	Raytheon (P&W)	Taming Unreliable Variables in Systems Engineering
Apr	Dan Burbank	Raytheon (Collins)	Reliability and Survivability in Crewed Spacecraft
May	Dr. Phillip Palmer	Sunrise Labs	The Benefits of a Systems Engineering Approach: How to reduce risks and improve performance in medical device development
Jun *	Guru Madhavan	National Academy of Engineering	TBD
Jul			
Aug			
Sep	Christopher Olson	Johns Hopkins	TBD
Oct	<i>No meeting</i>		<i>New England Fall Workshop</i>
Nov			
Dec			

Guest Speaker

The Benefits of a Systems Engineering Approach: How to reduce risks and improve performance in medical device development

Bio:

Phil Palmer has been developing medical devices and analytical laboratory instrumentation for over 20 years. He has experience leading multi-functional development teams through the entire product development lifecycle from proof-of-concept through to transition to manufacture. Phil's technical capabilities include: systems engineering, optics and imaging, lasers (diode, solid-state, gas, dye), embedded software, precision motion systems, and thermal management. He has developed aesthetic laser systems, photo-therapeutic and photo-aesthetic devices, a point-of-care IVD digital fluorescence imaging system, blood processing systems, and a series of automated high-temperature Hi-Res thermogravimetric analyzers. Phil holds a Bachelor of Science in Chemistry from Ursinus College and obtained his doctoral degree in Chemical Physics from the University of Pennsylvania.



The Benefits of a Systems Engineering Approach: How to reduce risks and improve performance in medical device development

Abstract:

Today's medical devices are redefining the standard of care by improving medical outcomes and the patient experience. These improvements are driven by technical innovations that span multiple engineering disciplines, interface to medical disposables, connect to patients, and support IoT driven functionality. The demands associated with developing disruptive new technologies, complex architectures, ergonomic and intuitive user interfaces, and multi-dimensional development programs must be balanced with key business objectives.

Utilizing a holistic Systems Engineering approach is critical to development of commercially viable products. The System Engineer provides the glue that binds the individual engineering disciplines and specialty groups together enabling development projects to systematically progress from conceptualization, to engineering development, to commercialization in an optimized manner.

This webinar will outline:

- The benefits of taking a Systems Engineering approach toward product development
- What role the Systems Engineer plays on the development team
- Which processes and practices are utilized by System Engineers



Questions

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