



# INCOSE New England fall Workshop @ UConn

October 17, 2019

# Chapter Leadership

- Amy Thompson, President, University of Connecticut
- Kiron Bhaskar, Vice President and President-Elect, Otis
- Mike Tymmm, Secretary, Corindus Vascular Robotics
- Ed Medri, Treasurer, Canon USA
- Bruce Lerner, Coherent Decision Solutions

# All Board of Directors

- **Matt Tkac**, Past President, CS Communications
- **Ebad Jahangir**, UTRC
- **Chris Massa**, Draper
- **Bill Sowa**, Pratt & Whitney
- **Jim Garman**, Lockheed Martin Sikorsky
- **Madhu Rao**, Belcan
- **Peter Huie**, WPI
- **Richard Powers**, Raytheon
- **David Finigan**, BAE
- **Amro Farid**, Dartmouth University

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# Corporate Advisory Board Members

- <https://www.incose.org/incose-member-resources/corporate-advisory-board>
- BU's or sites and employees Located in New England: [UTC](#), [Lockheed Martin](#), [Raytheon](#), [WPI](#), [UConn](#), [MIT](#), [Analog Devices](#), [Draper](#), [Medtronic](#), [SAIC](#)



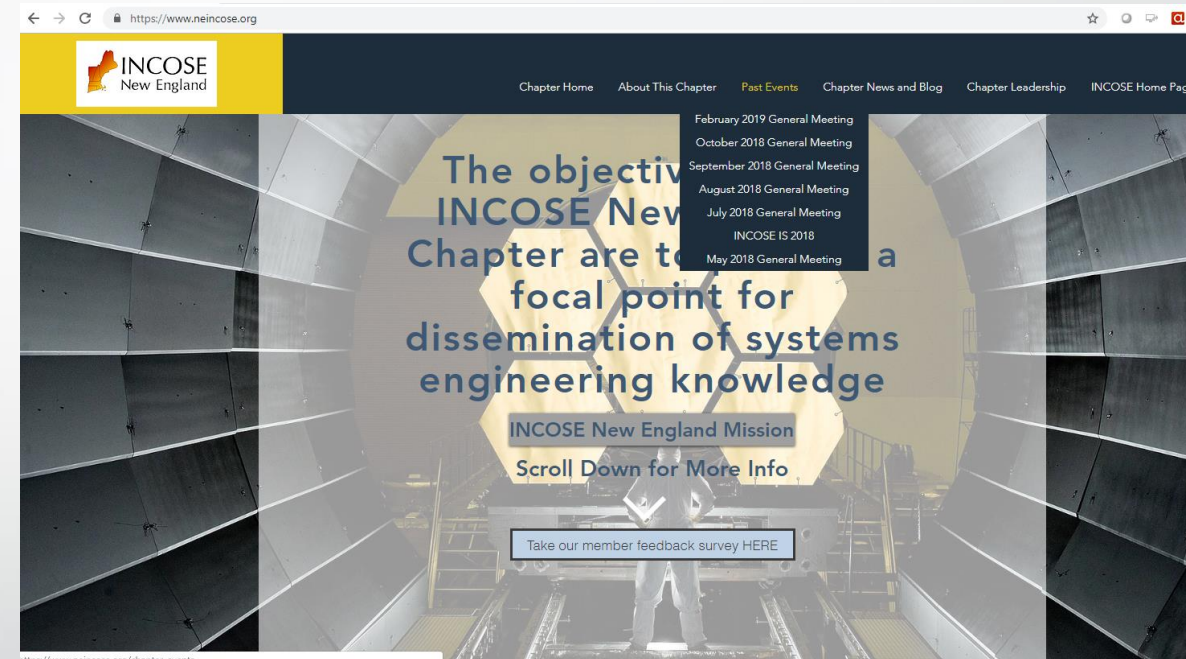
This Could Be Your Site....

Join by computer:  
<http://s.uconn.edu/htb216webex>  
Join by phone: 1-415-655-0002  
Meeting Access Code: 643 532 984



# INCOSE New England Website

- <https://www.neincose.org/>
  - Register and find upcoming events
  - Get information about past events
  - Connect through email or board
  - New committee page to get involved

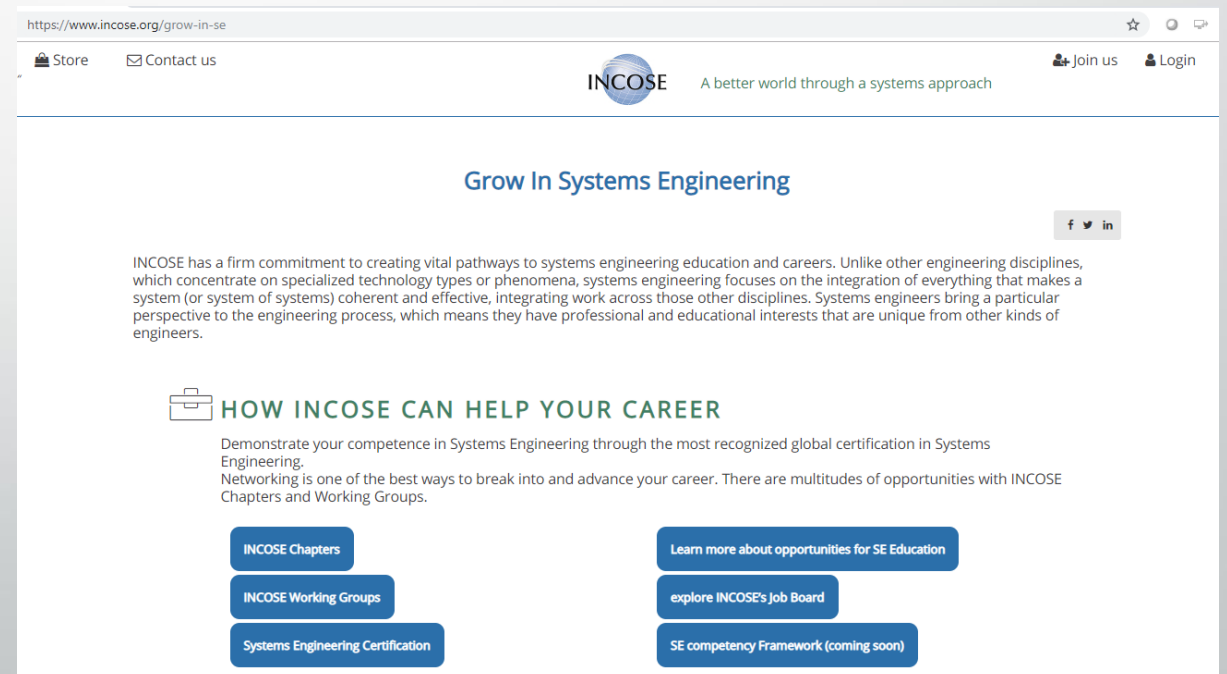


# Working Groups

## Professional Development

Access to the output of over 40 INCOSE Working Groups (Google “INCOSE Working Group”):

A sample of the working groups includes: Knowledge Management; Lean Systems Engineering; Life Cycle Management; MBSE Initiative; Measurement; Model-based Conceptual Design; Natural Systems; Object-Oriented SE Method; Oil and Gas; Ontology; etc.



The screenshot shows the INCOSE website page for 'Grow In Systems Engineering'. The URL is https://www.incose.org/grow-in-se. The page features the INCOSE logo and tagline 'A better world through a systems approach'. The main heading is 'Grow In Systems Engineering'. Below this, there is a paragraph explaining INCOSE's commitment to creating pathways to systems engineering education and careers. A section titled 'HOW INCOSE CAN HELP YOUR CAREER' includes a brief description and a list of opportunities: INCOSE Chapters, INCOSE Working Groups, Systems Engineering Certification, Learn more about opportunities for SE Education, explore INCOSE's Job Board, and SE competency Framework (coming soon).

https://www.incose.org/grow-in-se

Store Contact us

INCOSE A better world through a systems approach

Join us Login

## Grow In Systems Engineering

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INCOSE has a firm commitment to creating vital pathways to systems engineering education and careers. Unlike other engineering disciplines, which concentrate on specialized technology types or phenomena, systems engineering focuses on the integration of everything that makes a system (or system of systems) coherent and effective, integrating work across those other disciplines. Systems engineers bring a particular perspective to the engineering process, which means they have professional and educational interests that are unique from other kinds of engineers.

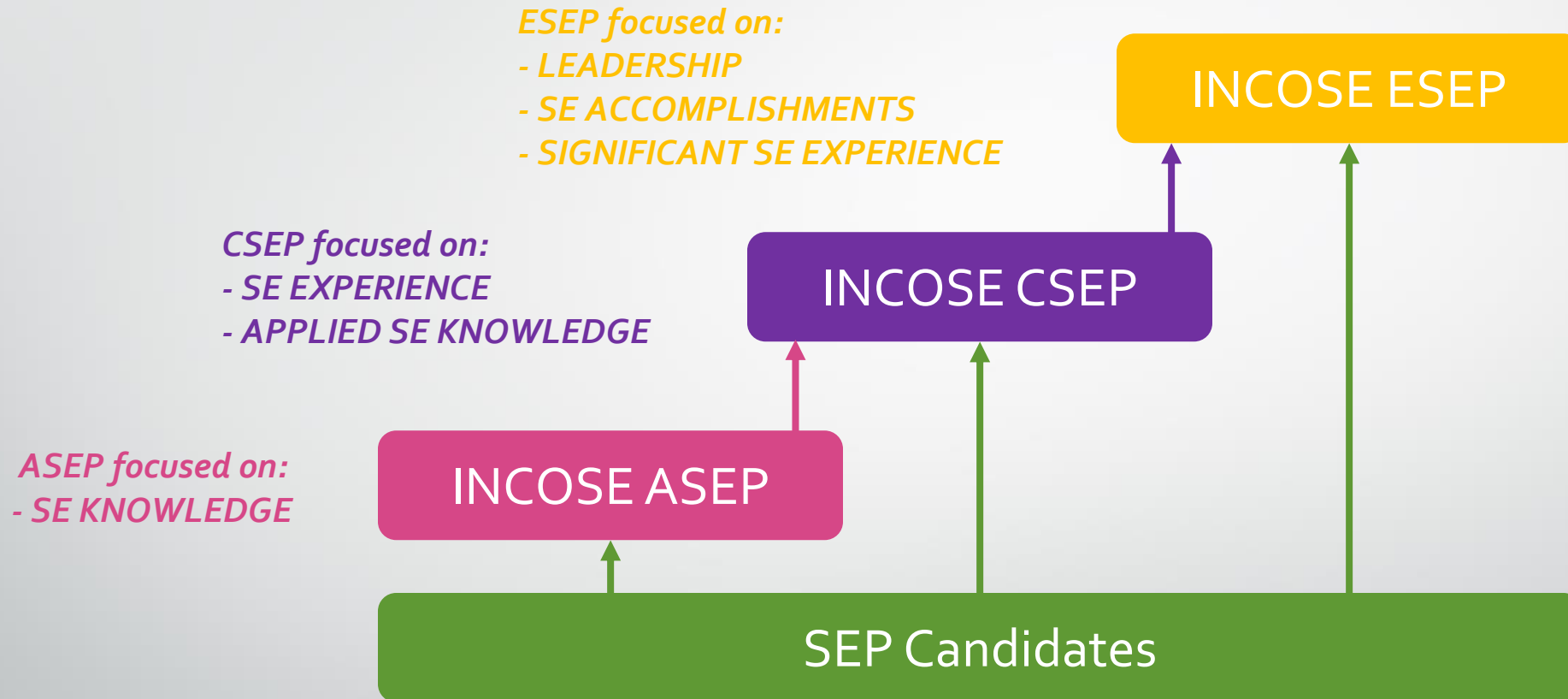
### HOW INCOSE CAN HELP YOUR CAREER

Demonstrate your competence in Systems Engineering through the most recognized global certification in Systems Engineering. Networking is one of the best ways to break into and advance your career. There are multitudes of opportunities with INCOSE Chapters and Working Groups.

- INCOSE Chapters
- INCOSE Working Groups
- Systems Engineering Certification
- Learn more about opportunities for SE Education
- explore INCOSE's Job Board
- SE competency Framework (coming soon)



# The SEP Aligns with the Typical Levels of a Systems Engineering Career



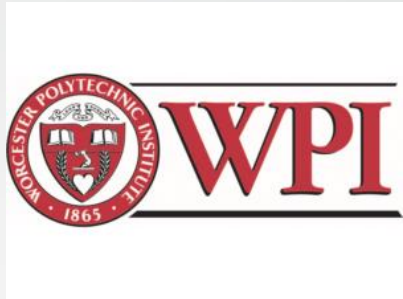
**You can enter at whatever SEP level is appropriate and can seamlessly transition between levels when ready.**



Belcan



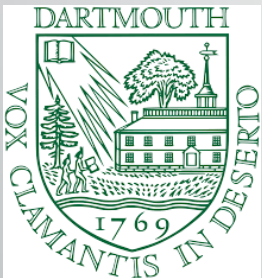
UTC Climate | Controls | Security



Lockheed-Sikorsky



UTC Pratt & Whitney



Raytheon



UTC OTIS



Collins Aerospace



Doosan Fuel Cell



## Workshop Agenda October 17

- 8:45 – 9:00 Welcome
  - Dean Kazem Kazerounian, School of Engineering, UConn
  - Pamir Alpay, Innovation Partnership Building, UConn
  - Amy Thompson, President INCOSE New England
- 9:00 – 9:30 Systems Engineering at the University of Connecticut
  - George Bollas, Director UConn UTC Institute for Advanced Systems Engineering
- 9:30 – 9:40 Break
- **9:40 – 11:00 Panel Session A: Defining the Safety Problem & Context for CPS**
  - Stephen Nichols. Otis, Cyber Physical Systems-of-Systems & Connected Elevators
  - Dr. Beth Wilson, WPI, Teaching Design for Safety to Next Generation Systems Engineers
- 11:00 – 11:10 Break
- **11:10 – 12:30 Panel Session B – Solutions & Methods for Achieving Critical Safety Levels in CPS**
  - Dr. Krishna Pattipati, UConn, Multi-functional Graphical Models for System Health Management
  - Dr. Matt Stuber, UConn, Robust Simulation of Dynamic Safety-Critical Systems
  - Dr. Liang Tang, Pratt & Whitney, Extending Gas Path Analysis to Full Flight Data for Engine Health Monitoring
- 12:30 – 1:30 Undergraduate SE Senior Design and Research Project, Tour of Proof of Concept Lab – 3<sup>rd</sup> Floor
- **1:30 – 5:00 MBSE and Safety Analysis Workshop: Dr. Bruce Powel Douglass**
- 5:00 – 6:00 Graduate Student Research Poster Session