

# Understanding What Makes Systems Engineers Effective

## INCOSE Chapter Meeting

International Council on Systems Engineering • Cleveland-Northern Ohio Chapter

Thursday  
December  
1  
2016

Member Meeting • All Welcome

**Who:** INCOSE Cleveland-Northern Ohio Chapter

**What:** Chapter Meeting: Understanding What Makes Systems Engineers Effective

**When:** Thursday, December 1, 2016, 5:30 – 7:30 pm

**Where:** Moosehead Hoof & Ladder  
7989 Columbia Road  
Olmsted Falls, OH 44138



**Speaker:** Pre-Recorded Webinar: "Helix - Understanding what Makes Systems Engineers Effective," presented by Dr. Arthur Pyster

**Registration Requested:** See Eventbrite link in email or at <http://www.incose.org/cleveland/>

**Abstract for the presentation:** Helix is a multi-year research project of the Systems Engineering Research Center (SERC) that is developing a theory of what makes those who perform systems engineering effective. To support that research, Helix has, so far, collected and analyzed extensive interview data from more than 160 systems engineers. During this talk, Dr. Pyster will present results of the Helix Project to date, including an early version of the model that explains what impacts the effectiveness of systems engineers plus an analysis of the education background of more than 2000 applicants to the INCOSE Systems Engineering Professional Certification Program.

**Bio:** Dr. Arthur Pyster has more than thirty-five years of experience as a successful executive, researcher, engineer, educator, and manager in government, industry, and academia. He has created, delivered, acquired, overseen, or operated numerous leading edge systems and technologies in telecommunications, aerospace, defense, air traffic control, and information technology domains and led software and systems engineering workforce development efforts in both industry and government.

Currently, he is a Distinguished Research Professor at Stevens Institute of Technology, Chief Operating Officer of the DoD Systems Engineering Research Center (SERC), and INCOSE Director for Academic Matters. Among his previous positions, he was the INCOSE CAB Chair, Senior Vice President and Director of Systems Engineering and Integration for SAIC, and Deputy Chief Information Officer and Chief Scientist for Software Engineering at the US Federal Aviation Administration.

In recent years, he has managed projects that created the Systems Engineering Body of Knowledge, Graduate Reference Curriculum for Systems Engineering, and Graduate Software Engineering 2009: Recommendations for Graduate Programs in Software Engineering. Currently, he leads the Helix Project, which is creating a theory of what makes systems engineers effective to be used by organizations and individuals to inform workforce development of systems engineers and personal career decisions, respectively.

Dr. Pyster earned a doctorate from Ohio State University in Computer and Information Sciences and is an INCOSE Fellow.

*The meeting is **free and open** to the public. Attendees may order off the menu and are required to pay for their meals, if they would like to have dinner*

<http://www.INCOSE.org/Cleveland>

