



# Chapter Meeting – November 16, 2023



**Topic: Engineering Trustworthy Secure Systems**

**Presenter: Dr. Mark Winstead, Chief Engineer MITRE Corporation,  
Co-chair INCOSE Systems Security WG**

**Presentation Site: Onsite Actalent + Online**

6:30 - 7:00 PM CT - Announcements & Introductions

**Agenda:** 7:00 - 7:15 PM CT - INCOSE Transportation WG Update, Dale Brown, Chair

7:15 - 8:30 PM CT - Feature Presentation and Q&A

## **Abstract**

In 2016, the National Institute for Standards & Technology released NIST Special Publication 800-160 -guidance addressing the systems engineering subdiscipline of systems security engineering (redesignated NIST SP 800-160 volume 1 in 2018). In 2021 NIST kicked off an update to this seminal document to update for advances and lessons learned from its use, released Nov 2022.

Renamed “Engineering Trustworthy Secure Systems” Volume 1 Revision 1 aligns closely (partially intentionally, partially coincidentally) with INCOSE’s Systems Engineering Vision 2035 and supporting efforts such as security in the Future of Systems Engineering (FuSE). This presentation will discuss NIST SP 800-160 Volume 1 Revision 1 in its role as describing principles and concepts for a systems engineering team’s role with engineering trustworthy secure systems while relating it to INCOSE efforts and initiatives.

## **About Our Speaker**

Dr. Winstead specializes in integrating security and mission assurance considerations into systems engineering from needs determination and concept exploration to disposal. Work at MITRE has centered on strategic weapon systems including support for AFLCMC/HBQ (Strategic Warning and Space Surveillance), AFNWC, AFGSC, OUSD(R&E), DHS, and STRATCOM programs, as well as supporting NIST.

Dr. Winstead is responsible for the Systems Security Engineering Department’s technical strategy, technical quality of deliverables, and pushing innovation into the department’s work program. MITRE’s Systems Security Engineering Department provides systems security engineering capabilities and support. Department sponsors include AFGSC, AFNWC, SSC, AFLCMC, most other Air Force MAJCOMs, MDA, Navy, Army, Veterans Administration, the IC, DISA, OSD, DHS, FAA, OUSD(R\*E), NIST, USSF, Spacecom, and various sub-organizations of each.

**Questions?** For more information, go to <http://www.incose.org/Chicagoland/>.



# Chapter Meeting – November 19, 2023



**Topic: Engineering Trustworthy Secure Systems**

**Presenter: Dr. Mark Winstead, Chief Engineer MITRE Corporation,  
Co-chair INCOSE Systems Security WG**

**Attendance: Onsite Actalent + Online**

## INCOSE Chicagoland



**Actalent**



**1501 E. Woodfield Rd.  
Suite 300E  
Schaumburg, IL 60173  
3<sup>rd</sup> Floor Conference Room**

Register online: <https://incosechicagoland-2023-11.eventbrite.com>

For more information, go to <http://www.incose.org/Chicagoland/>.