



If you are interested in a expanding your leadership experience, consider volunteering as an officer with the INCOSE Enchantment Chapter.

Nominations may be submitted for upcoming elections..

Board of Directors
Enchantment Chapter

The Enchanted View

October 2022

Digital Data Packages: Making the Digital Thread Work

Location: via Zoom, 12 October 2022, 445 PM – 6:00 PM MT

Contact: Ann Hodges, alhodge@sandia.gov

Register: email the contact for the event

ABSTRACT: The digital thread promises unbroken traceability from first expression of need through design, production, acceptance, operation, and upgrade. Viewed from one perspective, this provides confidence that the needs expressed have been satisfied. Viewed from another perspective, the thread establishes provenance for each aspect of a product or system. Done right, this is all captured in an authoritative source of truth supporting the engineering enterprise during development and the greater enterprise throughout the product lifecycle.

But how do we move from promise to practice and realized potential? There are countless stakeholders operating across the engineering lifecycle, each with specific insights, perspectives, and concerns. If implemented correctly, the digital thread enables every individual to see the information they need to see when they need to see it to elicit their unique insights and make informed decisions. Done poorly, the digital thread becomes an overwhelming tangle of interconnected bits of data dispersed across distributed repositories with lightweight traceability but little coherence and even less insight.



Speaker: David Long has spent over 30 years helping organizations increase their systems engineering proficiency while simultaneously working to advance the state of the art. David was the founder and president of Vitech where he led development of innovative, industry-leading methods and software to engineer next-generation systems. He co-authored *A Primer for Model-Based Systems Engineering* and frequently delivers keynotes, tutorials, and workshops around the world. An INCOSE Fellow and Expert Systems Engineering Professional, David was the 2014/2015 president of INCOSE. David holds a bachelor's degree in Engineering Science and Mechanics, as well as a master's degree in Systems Engineering from Virginia Tech.

ENCHANTMENT EVENTS

CHAPTER MEETINGS

Date: Every 2nd Wednesday each month, Time: 4:45-6:00pm

Location: via Zoom

Contact: Ann Hodges, CSEP, alhodge@sandia.gov

Register: email the contact for the event

Career Advice for Early Career Systems Engineers

The Career Advice panel event was a success with 75 participants and very positive comments as initial feedback. According to UTEP Professor, Sergio Luna Fong, *“The session helped UTEP SE students to realize the potential of their degree, the value of holistic thinking brings to their projects, the importance of culture and relationships, and focus areas to be competitive in the job market.”*

This Live virtual event was held Sept 14, 2022 with several Enchantment chapter volunteers as panelists responding to a wide variety of topics and questions. Panel volunteers included Marlene Brown, Gregory Chavez, Quinn Fatherley, Ann Hodges, Cheryl Kinchen, Raymond Wolfgang and Arno Granados as the panel moderator. The link was shared to 293 students, 140 Undergraduates and 153 Graduates.

2023 INCOSE CHAPTER ELECTION

2023 INCOSE Elections opens 1 October & closes 31 October

If you know a great candidate, nominate them (or yourself). To run for office Candidates must be a INCOSE member in good standing (dues are current).



MEMBERSHIP

ACTIVE CHAPTER MEMBERS: 110

Welcome to our newest member!

Martin Gomez Olivares, joined INCOSE on 9/13/2022 and is a student at the University of Texas at El Paso (UTEP).

CHAPTER CERTIFIED MEMBERS: 26%

ASEPs: 10 CSEPs: 18 ESEPs: 1

Board of Directors

Chapter Officers & Directors At Large

President, Steve Denman (SNL)
sddenma@sandia.gov

Vice President, Cheryl Bolstadt
cbolsta@sandia.gov

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fatherley4@llnl.gov

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drsquirt@outlook.com

Cheryl Kinchen, CSEP (SAIC)
cakinchen@gmail.com

Robert Schwenke (SNL)
rschwen@sandia.gov

MEMBER SPOTLIGHT

MEET THE ENCHANTMENT PRESIDENT



Steve Denman holds BS and MS degrees in Electrical Engineering from Texas A&M University and has worked in systems, software, and digital engineering for 37 years. He has worked at Sandia National Laboratories, Rational Software, RE/SPEC, MKS, PTC, IBM, and a few companies of his own making along the way.

Steve's primary areas of focus in systems engineering have been requirements engineering and system architecture with a particular focus on model-based systems engineering (MBSE) and the critical role of systems engineering practices in the development of software-intensive, cyber-physical products and systems. In addition, he has worked extensively on integration of software processes, practices, methods, and tools across the system life cycle as an enabler of digital engineering and the digital thread and on the application of natural language processing and machine learning to assist systems engineers in managing the enormous complexity of system development. He has experience in a range of system domains, especially aerospace, defense, automotive, and medical devices and is currently working as a systems engineer on several programs in the Integrated Military Systems Center at Sandia Labs.

INCOSE TIPS:

UPDATE YOUR MEMBER INFORMATION

If you started a new job, or moved in the past year, go to www.incose.org, sign in, click on your name and select 'Profile'

- 1) Review, if needed select 'Edit My Information'
 - 2) Select 'Renew' if membership expires soon
- Use your phone to scan it and check it out!

Enchantment Chapter
Quick Response (QR) Code.



Chapter Website

www.incose.org/enchantment

FUTURE SAVE THE DATE EVENTS

November Event

□ 11/9/22

Duncan Kemp

"System of Systems Overview"

Note: This will be a lunch time talk due to UK time difference

December Event

□ 12/14/22:

Eric van der Meulen, Marcelino Sanchez

"Organizations as Systems: Principles of Systems Thinking to Improve Organizational Performance"

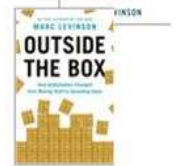
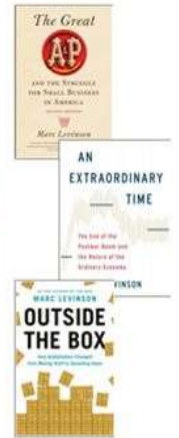
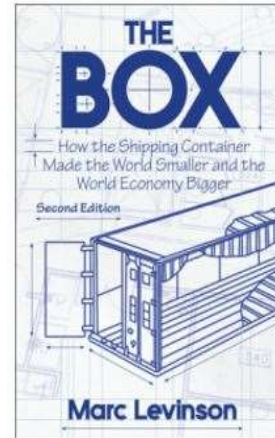
CHAPTER MEETINGS

Every 2nd Wednesday each month, Time: 4:45-6:00pm, via Zoom

BOOK RECOMMENDATIONS

Historian, economist and author – Mr. Marc Levinson enjoys making complex economic issues understandable to the general public. Specializing in an international focus, dealing with trade, globalization, finance, and business, Marc has researched and presented extensively on regulatory and macroeconomic issues.

Mr. Levinson's book **The Box: How the Shipping Container Made the World Smaller and the World Economy Bigger** explains how dramatic changes in the way freight is transported have reshaped the world economy. His presentation to the Enchantment Chapter April 13, 2022 was on how the global logistics system works—and how the failure to incorporate a systems perspective contributed to the supply-chain problems. This presentation was not recorded but for more information, you can visit his website, <https://www.marclevinson.net/>.



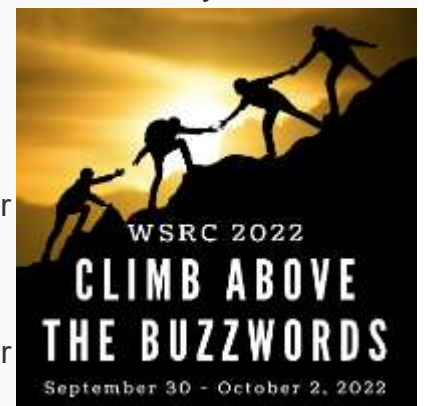
OTHER INCOSE CHAPTER NEWS

Western States Regional Conference (WSRC)

30 September to 2 October 2022

Organized by the INCOSE Colorado Front Range Chapter, this year's conference theme is Climb Above the Buzzwords. The event will take place in-person in Golden, Colorado and virtually.

WSRC 2022 will showcase the latest innovations in systems engineering research and demonstrate real-world applications and solutions. Presenters will 'Climb Above the Buzzwords' to highlight the utility of their cutting-edge work. We will go beyond strategic visions and pitches for change - and popular buzzwords - and share how we are actually driving change in the systems engineering community to highlight the utility of their cutting-edge work.



This 3-day event of presentations and keynotes on systems engineering topics is open to anyone; you don't need to be an INCOSE member or a systems engineer. If you have to solve challenging problems and optimize processes on a regular basis, you will benefit from the systems approach.

The Conference Chair and INCOSE Americas Sector Director, Renee Steinwand, CSEP, states "As a committee we are delighted to bring back the in-person Western States Regional Conference, while continuing to offer virtual attendance. We are looking forward to seeing INCOSE members, systems engineers and those new to systems engineering."

Symposium sponsors to date include Project Performance International, Jama Software, OBEO, Systems Engineering Colorado State University, Caltech, and Rationality design logic.

WSRC 2022 is taking place at Golden Hotel in Golden Colorado. The Golden Hotel, overlooking scenic clear creek and the Rocky Mountain foothills, is conveniently located in the heart of the historic downtown Golden, Colorado.

For more information about the conference including the technical program and how to register to attend please visit our website www.incose.org/wsrc

Questions?

Contact Chapter President Steve Denmam sddenma@sandia.gov

For Newsletter Information or Submissions

Contact Chapter VP Cheryl Bolstad cbolsta@sandia.gov
