



# The Enchanted View

November / December 2022

## CONCEPTS TO THINK ABOUT



"It may be the warriors who get the glory, but it's the engineers who build societies."

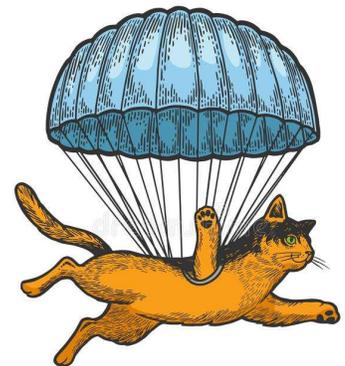
-Chief Engineer,  
Lieutenant B'Elanna  
Torres, Star Trek Voyager

A System is an integrated set of elements, subsystems, or assemblies that accomplish a defined objective (INCOSE 2015).  
Systems include: Hardware, Software, Firmware, Processes, People, Information, Techniques, Facilities, Services and Support.

As systems thinking is nonlinear, interconnections need to be identified. Those connections can change system behavior. That change could be positive, or negative.

Systems thinking is an ongoing process to identify boundaries, dependencies, and relationships.

Systems thinking is the behavior of the whole.



"Parachuting Cats into Borneo":  
<https://amzn.to/2wBfSD0>

## Board of Directors

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### Membership & Newsletters

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# CHAPTER ELECTION RESULTS

## 2023 OFFICERS:

President Cheryl Bolstad  
Vice-President Jose Rafael Parga (Effective 1/1/2023)  
Secretary Ann Hodges  
Treasurer Mary Compton  
Past President Steve Denman

## 2023 DIRECTORS AT LARGE:

Quinn Fatherley  
Heidi Hahn  
Robert Schwenke  
Gregory Chavez

## UTEP Student Division Advisor

Eric Smith

For Bios and pictures of our Board of directors and officers go to the Enchantment Chapter website: <https://www.incose.org/incose-member-resources/chapters-groups/ChapterSites/enchantment/about-this-chapter/2023-board-of-directors>

# ENCHANTMENT EVENTS



November 9, 2022 the Enchantment Chapter hosted a networking social to meet the new officers and each other at O'Niell's Pub on Juan Tabo, Albuquerque. The Chapter provided appetizers and drinks and was attended by 20 members and guests.

## CHAPTER MEETINGS

**Date:** Every 2nd Wednesday each month, Time: 4:45-6:00pm  
**Location:** via Zoom  
**Contact:** Ann Hodges, CSEP, [ann.hodges@incose.net](mailto:ann.hodges@incose.net)  
**Register:** email the contact for the event

## INCOSE TIPS:

### UPDATE YOUR MEMBER INFORMATION

If you started a new job, or moved in the past year, go to [www.incose.org](http://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](http://www.incose.org/enchantment)

## NOVEMBER CHAPTER MEETING SYSTEM OF SYSTEMS OVERVIEW: IF YOU THOUGHT SYSTEMS ENGINEERING WAS FUN, WAIT UNTIL YOU TRY SYSTEM OF SYSTEMS ENGINEERING!

On November 9, 2022 the Enchantment Chapter held an afternoon Chapter meeting which featured UK speaker, Duncan Kemp (Senior Fellow for Systems Engineering in Defence Equipment and Support (DE&S) within the UK Ministry of Defence, Visiting Professor, Loughborough). Topics included:

- Recap on Systems and Systems Engineering
- What is a System of Systems
- System of Systems Engineering Approaches
- Rail and Defence examples

If you are interested in knowing more, see the Chapter website: <https://www.incose.org/incose-member-resources/chapters-groups/ChapterSites/enchantment/resources>

## DECEMBER CHAPTER MEETING ORGANIZATIONS AS SYSTEMS: PRINCIPLES OF THINKING TO IMPROVE ORGANIZATIONAL PERFORMANCE

**Presenters:** Eric van der Meulen, Marcelino Sanchez  
**Location:** via Zoom, December 14, 2022, 4:45 PM – 6:00 PM MT  
**Contact:** Ann Hodges, [ann.hodges@incose.net](mailto:ann.hodges@incose.net)  
**Register:** email the contact for the event

**ABSTRACT:** Human organizations are human systems just like technical systems. The relationships, interactions, interfaces, and behaviors are all connected. Unlike technical systems, however, human systems are not 100% predictable and they tend to exhibit higher degrees of variation. During this interactive session we will explore key principles of systems thinking applied to human systems to gain insights on how to achieve desired results, better collaboration, more satisfying relationships, and sustained improvement. Outline of Principles to Explore:

- Human interfaces: Oshry's model of human systems
- Psychological Safety: Trust, Collaboration, Innovation
- Simplification and Agility
- Systemic Reinforcement Model

## MEMBERSHIP

**ACTIVE CHAPTER MEMBERS: 113**

*Welcome to our newest members!*

**Haiqing Schwarz**, joined INCOSE on 10/12/2022 and works at Sandia National Laboratories

**Mohammad Rahman**, joined INCOSE on 10/26/2022 and works at Sandia National Laboratories

Companies represented by membership: Aerospace Corp; Boeing; CSU; Leidos; LANL; NG; Raytheon; SAIC; Sandia National Labs (40%); Stellar Solutions; UTEP (10%); DOD

**CHAPTER CERTIFIED MEMBERS: 25%**

ASEPs: 9    CSEPs: 18    ESEPs: 1

## MEMBER SPOTLIGHT

**2023 INCOMING CHAPTER PRESIDENT**



**Dr. Cheryl Bolstad** is a Principal Systems Research and Analysis Engineer for the Human Factors department at Sandia National Laboratories in Albuquerque, NM. Dr. Bolstad is a Fellow of the Human Factors and Ergonomics Society and Certified Professional Ergonomist. She has a Ph.D. in Psychology specializing in cognition and human factors from North Carolina State University. Dr. Bolstad has over 30 years of experience

working with the Department of Defense and within the commercial sector. She has worked extensively in situation awareness (SA) research, human automation integration, user interface design, and team performance. Currently Dr. Bolstad is the Vice-President for the Enchantment INCOSE chapter and on the Technical Program Committee for the Human Factors and Ergonomics Society.

## RESOURCE RECOMMENDATIONS



**The Professional Development Portal (PDP)**

**Now Available at [incose.org/pdp](https://incose.org/pdp)**

*Your source for systems engineering professional development*



## Job Openings

### OPEN-RANK FACULTY POSITION IN COMPUTER SCIENCE AT THE UNIVERSITY OF TEXAS AT EL PASO (UTEP)

The Department of Computer Science at UTEP invites applications for an open-rank faculty position starting fall 2023 with a preference for candidates in the area of Software Engineering. To view the full ad and apply, please visit <https://www.utep.edu/employment>.

<https://utep.interviewexchange.com/jobofferdetails.jsp;jsessionid=0956CDB2B9C984821EA4A2841458B6EE?JOBID=155066>

### VISITING PROFESSOR IN SYSTEMS ENGINEERING AT THE UNIVERSITY OF TEXAS AT EL PASO (UTEP)

The University of Texas at El Paso (UTEP) is seeking to fill a visiting faculty position at the Assistant, Associate, or Full Professor level for its growing, dynamic Department of Industrial, Manufacturing, and Systems Engineering. Applications are solicited from candidates whose professional experience and interests are focused on Systems Engineering. To view the full ad and apply, please visit <https://www.utep.edu/employment>. Questions about the position should be directed to the Search Committee email: [IMSEvisitingprofessor2022@utep.edu](mailto:IMSEvisitingprofessor2022@utep.edu).

<https://utep.interviewexchange.com/jobofferdetails.jsp?JOBID=150487>

## Future 2023 Events

### JANUARY CHAPTER MEETING COLLABORATIVE SYSTEMS THINKING CULTURE: A PATH TO SUCCESS FOR COMPLEX PROJECTS

**Presenter;** Raymond Wolfgang

**Date:** Jan 11, 2023 - 04:45 PM - 06:00 PM MT

**Location:** Online, Zoom

**Contact:** Ann Hodges  
**Email:** [ann.hodges@incose.net](mailto:ann.hodges@incose.net)  
**Phone:** 505-951-7067

## FEBRUARY CHAPTER MEETING MODEL BASED SYSTEMS ENGINEERING

**Presenter;** Casey Medina (<https://www.studiose.design>)  
**Date:** Feb 8, 2023 - 04:45 PM - 06:00 PM MT  
**Location:** Online, Zoom  
**Contact:** Ann Hodges  
**Email:** [ann.hodges@incose.net](mailto:ann.hodges@incose.net)

### REGISTER NOW FOR IW23



**2023**  
Annual **INCOSE**  
international workshop  
HYBRID EVENT  
Torrance, CA, USA  
January 28 - 31, 2023

### START MAKING PLANS FOR IS23



**33<sup>rd</sup>** Annual **INCOSE**  
international symposium  
hybrid event  
Honolulu, HI, USA  
July 15 - 20, 2023

#### Questions?

Contact Chapter President Steve Denmam [sddenma@sandia.gov](mailto:sddenma@sandia.gov)

#### For Newsletter Information or Submissions

Contact Chapter VP Cheryl Bolstad [cbolsta@sandia.gov](mailto:cbolsta@sandia.gov)

**WISHING EACH OF YOU A  
WONDERFUL HOLIDAY SEASON**



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