



## Chapter News

### October 2024

Welcome to October 2024. Here is what is happening with the North Texas INCOSE Chapter...

#### ***INCOSE NTX Tour Event at Raytheon McKinney - September 27***

This event was a HIT! Thank you Geordan and Jerome for all your efforts to make this happen!



#### ***INCOSE NTX Supporting Texas Autocross Weekend, joint with SAE and Dassault Systems - October 11-13***

UT Arlington (UTA) will be hosting the 23rd annual "Texas Autocross Weekend" on the weekend of October 11 - 13, 2024. The original intent was for Texas and Oklahoma schools to get together, but it has grown to be a national event over the years joining for a weekend of pure Formula SAE racing.

The venue is an open house Friday afternoon/evening at the UTA shop (Woolf Hall Room 121, 500 W. 1st street, Arlington, TX 76019) to view UTA's fleet of 20 cars and for schools to do any last minute repairs. Friday night the college students have a social at the school in the first floor of Woolf Hall. All are welcome to meet the students and hear about their teams. There is a beautiful Arnold E. Petsche Center for Automotive Engineering showcase room with cars and trophies. Taylor Race is sponsoring food for Friday night.

Saturday 10 am will be a Formula SAE racing competition at UTA's big lot (Southeast corner of Cooper and Mitchell streets in Arlington, TX) with a Formula SAE course in the morning and a more open faster course in the afternoon. Drinks and snacks will be provided by Mouser Electronics and Red Bull. Spectators are on your own for lunch.

On Sunday SCCA will host a "Formula Cars Only" autocross event at UTA, Southeast corner of Cooper and Mitchell streets in Arlington Lot 49, you can park in Lot 52. Spectators are on your own for lunch (several fast food restaurants are nearby).

There are over a dozen schools, 30+ FSAE cars and over 250 students expected to come.

This event is FREE for all SAE members, non-members, children and guests. Bring lawn chairs or blankets for Saturday and Sunday so you don't have to stand all day. Don't forget to bring sunscreen too.

This is a great opportunity to recruit hard working students that have hands on mechanical, electrical, presentation, budget, schedule, teamwork, leadership and many other valuable skills. It is also an opportunity to get children involved and introduce them to these exciting programs. Please feel free to exchange contact information with schools. Help support them with intellectual and monetary guidance.



## ***INCOSE NTX Supporting Event METROCON 2024, Sponsoring a table - November 14***

IEEE MetroCon 2024 will be held at the Hurst Convention Center on November 14, 2024. The conference is hosted by the IEEE Fort Worth Chapter. MetroCon offers nine unique tracks and over 40 presentations on the latest technologies!

### MetroCon Tracks

1. Developing and Deploying Secure Systems

2. Systems and Software Engineering
3. Internet of Things
4. Computational Intelligence (Quantum and AI)
5. Power and Energy Systems
6. Biotechnologies
7. Photonics
8. Autonomous and Vehicle Systems
9. Financial Planning and Professional Development

Attending MetroCon a great opportunity for attendees to network and learn about the latest developments in science, engineering, and technology!

See the [MetroCon 2024](#) website for more information.



***Be sure to checkout the presentation by INCOSE NTX President Dawn Handley, and Sean Densford from Dassault***

**Title:** Systems Engineering the Future with INCOSE

**Presenter:** Dawn Handley, Internation Council on System Engineering

**Abstract:** The International Council on Systems Engineering (INCOSE) is a professional organization founded to develop and disseminate the transdisciplinary principles and practices that enable the realization of successful systems. INCOSE is designed to connect systems engineering professionals with educational, networking, and career-advancement opportunities in the interest of developing the global community of systems engineers and systems approaches to problems. This presentation will provide an overview on the INCOSE organization and activities, and will discuss INCOSE Systems Engineering certification levels. Come learn about the advantages of INCOSE membership and professional certification!

**Title:** Strategies and Best Practices for Managing Complex System Architectures

**Presenter:** Sean Densford, Dassault

**Abstract:** As the paradigm shifts towards the adoption of Model-Based Systems Engineering (MBSE), the Change and Configuration Management of digital models and handling of complex digital project model architectures emerges as critical area of focus as traditional document-based methods fall short in addressing the unique demands of digital model management. While change and configuration management is a widely recognized procedure in conventional document-based systems engineering, its implementation in digital models is comparatively less established. New capabilities and tools that simplify the management of digital models have been provided with the implementation of MBSE. The increased capacity of these skills makes digital processes and procedures more suitable for management than their traditional counterparts.

Currently, the industry is saturated with many approaches for managing digital models coming from a traditional document-based perspective. Many questions emerge when none of the approaches are suitable for the project model architecture and leading to a perceived gap in capability that prevents MBSE adoption. The goal of this presentation is to demystify complexities surrounding digital model management, communicate considerations for management of digital models, and propose model architecture patterns that support the effective handling of models throughout their lifecycle.

## ***INCOSSE NTX Tour Event - Peterbilt Denton, TX November 15***

Tour is about an hour from when we start. It will take a few minutes to get everyone checked in, get them their safety glasses, side shields for prescription glasses, headsets and vests. As long as everyone is on time we should be done with the tour about 11:15 am. The groups will split up and we can have groups going as soon as we get enough people to send a group, so we don't all have to wait on people showing up at the same time.

Safety glasses, side shields for prescription glasses and vests will be provided. You may bring your own safety glasses if you want.

**Dress Code:** Closed toe shoes are required. No open toe shoe of any kind is allowed. No shorts are allowed. Flowing clothing is not allowed.

**Age Requirement:** No person under 16 years old is permitted into the plant during production hours.

**Photography:** Tour guides may arrange for photos to be taken in the Peterbilt Experience Area. All other photography in the plant is prohibited without advance approval. Approval may be requested, in advance, through the plant receptionist. No other photos on the property are permitted.

**Jewelry Policy:** The Denton plant has a jewelry policy in place to help prevent potential product damage. Anyone entering the plant is required to: Remove rings while in the plant. Remove watches or bracelets while in the plant. Remove belts with metal buckles while in the plant. If someone forgets and can't take off their belt, we do have some belt protectors if needed.

Email [ntxinfo@incose.net](mailto:ntxinfo@incose.net) by **November 8th** to sign up for this event. This is open to families 16 years and older.



## ***Chapter End of Year Event!***



Main Event Grapevine

**Date:** November 16th

**Time:** 4:00PM - 8:00PM

Join us for Food and Fun! \$20 per person, families welcome.

Information to RSVP for the event will be sent out in a separate email.



## ***Chapter Hosted SEP Exam***

The chapter is excited to offer two more opportunities to take a paper based SEP exam this year. Fall offerings are

October 12, 2024, 8am-12pm CST, at SMU - ***Good Luck to all who are taking the exam!***

## ***Want to help out the chapter?***

If you like to write and would like to submit articles to the INCOSE newsletter, we would love to hear from you! Contact us at [ntxinfo@incose.net](mailto:ntxinfo@incose.net) and let's get the articles started.

## ***INCOSE Elections***

***NTX Board Elections*** - Full NTX Chapter members check your email for your ballot!

## **Join Us for this months Chapter Meeting!**

Chapter Meeting Oct 8, 2024 5:30-7pm CST

Join us online: [INCOSE NORTH TEXAS CHAPTER MEETING](#)

## **This Month's Presentation**

**Presenter:** Ryan Noguchi

**Title:** Key Modeling Principles to Moderate the Growth of Model Technical Debt in MBSE

**ABSTRACT:** MBSE is the emerging practice of systems engineering (SE) in which descriptive models replace documents as the embodiment of SE knowledge. Consciously applying appropriate model architecting principles and practices is essential to make well-informed architectural decisions about the models to prevent the accumulation of excessive model technical debt. This presentation explains the nature of technical debt in descriptive models and describes 24 foundational principles that model architects should consider when making these architectural decisions and the technical debt tradeoffs that result when those principles are not followed. Applying disciplined model architecting practices to conscientiously manage the accrual and payoff of technical debt can make the difference between an enduring model that provides

substantial value throughout the life cycle of the modeled entity and a model whose value collapses under the weight of uncontrolled technical debt.

## Next Month's Presentation

**Join us in November for our next speaker:** Roman Eble presenting on Human Systems Integration, Education, and Talent

**Abstract:** This presentation provides an overview of Human Systems Integration (HSI) within the Systems Engineering process and program management efforts. It highlights the integrated and comprehensive analysis, design, and assessment of requirements, concepts, and resources for various HSI domains including human factors engineering, manpower, personnel, training, safety and occupational health, force protection and survivability, and habitability. The abstract also details Raytheon Technologies' Command Media System, Functional Processes, and implementation. It explains how the Talent and Career Explorer (TACE) can be utilized by employees to support their programs and how the Career Development Framework (STRIDE) allows employees to expand and track their careers. Additionally, it discusses the RTX HSI Community of Practice (CoP) Engagement Center and encourages involvement in monthly meetings. Finally, it mentions an open team discussion and the future of HSI within RTX business units.

**Meeting Nov 12, 2024, 5:30-7:00pm**



- CHECK US OUT ON LINKEDIN! Join the [INCOSE- North Texas Regional Chapter](#) LinkedIn Group. Stay up to date on chapter events, opportunities and the Systems Engineering world.



- Potential NTX Chapter member presenters

Chapter members, we are looking for interested individuals to speak to the NTX chapter in 2024. If you are interested, please email us at [ntxinfo@incose.net](mailto:ntxinfo@incose.net) to express your interest and we will provide you all available dates (no worries, you will have ample time to prepare). This opportunity can get you PDU points toward your INCOSE certification and help the NTX Chapter achieve Platinum Circle status!

## WELCOME NEW MEMBERS

Kunaal	Bantwal	Lockheed Martin Corporation
Katherine	Nading	Lockheed Martin
Daria	Mixon	RTX
Amy	Plaskota	Lockheed Martin
George	Mikhaeil	Lockheed Martin
Daniel	Newsom	
Alfredo	Gimenez	Bell Flight
Paul	Wilson	TheyConsult

## INCOSE Membership Autorenewal

NTX Team, there is a great opportunity to auto-Renew your INCOSE membership. If you are interested, navigate to the INCOSE.org page in the Profile Home section, select in the Membership tab, below my membership there is a link that will lead you to your billing information to make a the selection to auto renew your membership.

**If you would like to become a member or need to renew your membership**, visit the [INCOSE membership page](http://www.incose.org/about/Membership) (<http://www.incose.org/about/Membership>). After becoming a member, watch for new member emails and join the monthly new member café's.





## Congratulations to the newest SEPs in North Texas

Kunaal Bantwal, ASEP

Daria Mixon, ASEP

- Let us know if you've been certified at [ntxinfo@incose.net](mailto:ntxinfo@incose.net)

## Shout out to your community work in North Texas

- Let us know what you are up to - send your community involvement to [ntxinfo@incose.net](mailto:ntxinfo@incose.net)

**If you have published an article or plan to give a presentation**, we encourage you to share the news. Send a summary of it to Danyel at [ntxinfo@incose.net](mailto:ntxinfo@incose.net) and we will include it in the newsletter.

# Upcoming Events

## INCOSE Events:

Oct 8, 2024 - INCOSE North Texas Meeting: Ryan Noguchi presenting Managing Technical Debt in Models

Checkout NTX Chapter Member Craig Leger presenting to the Chicagoland Chapter on the SE Lab, meeting is available to all. Check out [INCOSE Chicagoland: Introduction to INCOSE's Systems Engineering Lab](#) to join the meeting.

Nov 12, 2024 - INCOSE North Texas Meeting: Roman E presenting

## Local Events:

[IEEE MetroCon 2024 – November 14th, 2024 | Hurst Conference Center](#), Michelle Maddox from NTX  
INCOSE Sponsoring Systems Engineering Track - November 14, 2024

Let us know of anything coming up by sending a note to [ntxinfo@incose.net](mailto:ntxinfo@incose.net)

# Ambassadors

If you would like to promote the chapter and host meetings at your facility, contact Seth Sherman at [ntxinfo@incose.net](mailto:ntxinfo@incose.net) to volunteer as an Ambassador and you will be provided with orientation material.

POCs and Locations are:

- Monique Jobe, CAE - Arlington
- Jennifer Key, Lockheed Martin MFC - Grand Prairie
- Wesley Simon, Lockheed Martin MFC – Grand Prairie
- Justin C' de Baca, Lockheed Martin - Fort Worth
- Geordan Koenigs, Raytheon - McKinney
- Leejo George, Collins - Richardson
- Sean Densford, Dassault

Don't see your facility on the list? If you would like to host a meeting, let us know at [ntxinfo@incose.net](mailto:ntxinfo@incose.net).

## Chapter Resources

- **PDU Information:** INCOSE Systems Engineering Professionals (SEPs) should be tracking their professional development activities throughout their certification period. They should keep a log of these activities and additional supporting information in case they are audited. Upon completion of certification or renewal, SEPs should download the latest forms to assist with their next renewal activity.

More information available at: [Renewing Certification \(incose.org\)](https://www.incose.org/renewing-certification).

- **2035 System Engineering Vision available (free resource!)**

This Vision was sponsored by INCOSE and produced by a team of leaders from the systems community, with inputs from across industry, academia, and government. The Systems Engineering Vision 2035 addresses:

- The Global Context for Systems Engineering
- The Current State of Systems Engineering
- The Future State of Systems Engineering
- Realizing the Vision

Available at <https://www.incose.org/about-systems-engineering/se-vision-2035>

- **The NTX Chapter Yammer site.** - Now called Viva Engage!

Use your member's Inco.se.buzz email address to access the site. Yammer can be used to have announcements, discussions, ask questions, and conduct basic polls. We welcome you to join us in any of the discussions there. [https://www.yammer.com/incose2.onmicrosoft.com/#/threads/inGroup?type=in\\_group&feedId=62479065088&view=all](https://www.yammer.com/incose2.onmicrosoft.com/#/threads/inGroup?type=in_group&feedId=62479065088&view=all). A few of you have incose.net accounts while the majority of our members received incose.buzz accounts. Check your email for the invitation to Yammer with your user name and password. People with incose.net accounts should log into office 365 and then go to Yammer. People with incose.buzz accounts should go straight to Yammer.

- **(Volunteers Needed)** Let us know if you are interested in becoming a NTX Yammer contributor to help promote Yammer by interaction through comments or briefing on INCOSE products. Other items of interest we would like to include are recaps of chapter meetings and op-eds on your experiences with INCOSE. If interested, please contact the Board at [ntxinfo@incose.net](mailto:ntxinfo@incose.net).
- **Systems Engineering Tools Database (SETDB):**

In collaboration with Project Performance International (PPI), the INCOSE SETDB WG provides the Systems Engineering Tools Database (SETDB) for INCOSE and PPI members and stakeholders to assist with systems engineering tool searching and information collection.

The SETDB Working Group products are available on the SETDB YAMMER site and are available for all INCOSE members. They are not official INCOSE products, they are INCOSE Working Group products.

The SETDB Public Website is available at [this link](#) and a link to the SETDB is available on this web page

A SETDB link is also available on the INCOSE Website Landing page, and you can reach it directly at: [www.systemsengineeringtools.com](http://www.systemsengineeringtools.com)

- **INCOSE SEP Certification & Exam info videos!**

INCOSE has posted a series of one minute long videos on their YouTube Channel:

- **Intro to certification:** <https://www.incose.org/systems-engineering-certification/>
- **Computer Exam Step 1** – schedule the exam: [https://youtu.be/9\\_mivBiwkPo](https://youtu.be/9_mivBiwkPo)
- **Computer Exam Step 2** - <https://youtu.be/L1myzH9vEEk>
- **Computer Exam Step 3** - <https://youtu.be/OTRmwz-bALs>

## Board Meeting Minutes

Attendees:

President – Dawn Handley (Present)

President-Elect – Seth Sherman (Present)

Vice President of Chapter Development – Seth Sherman (Present)

Director of Technical Development – Geordan Koenigs (Present)

Treasurer – Michelle Maddox (Present)

Director of Information – Danyel Fiet (Present)

Past President – Anthony Williams (Not-Present)

Director at Large – Sarena Gazic (Present)

Director at Large – Jerome Forbes (Present)

Ambassador – Justin C' de Baca (Not-Present)

Ambassador – Jennifer Key (Present)

Ambassador – Monique Jobe (Present)

Minutes from the 1 Oct 2024 Board Meeting:

**Board Meeting:**

- Voted on the cost per person for the end of year event. - approved cost of \$20 per person
- Discussed who is supporting the MetroCon booth.
- Discussed communications for MetroCon, Peterbuilt, and the end of year event since they are all back to back.
- Election Ballot process was discussed

**Feel free to forward this email to others.**

**If you would like to unsubscribe from these emails**, log into your INCOSE account and update your profile settings to opt out of emails and let us know by emailing us to [ntxinfo@incose.net](mailto:ntxinfo@incose.net).

**If you had this email forwarded to you and would like to become a member of the Chapter**, log into your INCOSE account and update your profile to add the North Texas Chapter. If you are already a member of the chapter and did not receive the email directly, you may need to update your profile to opt in to emails.

**If you aren't a member and want to be added to our email list contact us at [ntxinfo@incose.net](mailto:ntxinfo@incose.net).**

Warm Regards,

President – Dawn Handley

President-Elect – Seth Sherman

Vice President of Chapter Development – Seth Sherman

Director of Technical Development – Geordan Koenigs

Treasurer – Michelle Maddox

Director of Information – Danyel Fiet

Past President – Anthony Williams

Director at Large – Sarena Gazic

Director at Large – Jerome Forbes

