# TGCC Monthly Meeting

## April 15, 2021

# Agenda

- Greetings/News
- INCOSE Resources
- Today's Speaker

# INCOSE News

INCOSE | WSRC Western States Regional Conference

Call for Proposals

**Call for Proposals: Deadline - April 25, 2021**

The San Diego Chapter of the International Council on Systems Engineering (INCOSE) is hosting the fourth annual Western States Regional Conference, serving the Systems Engineering communities across the western United States and beyond.

The conference will feature keynote presentations, tutorials, technical presentations, panel discussions, and networking events. **This is planned live, in-person event.** The venue is the Courtyard by Marriott San Diego Airport / Liberty Station near downtown San Diego, CA and convenient to numerous business and entertainment opportunities. The conference theme is **Sailing the Digital Wave**. We want to acknowledge and celebrate successful application of Systems Engineering in the San Diego area and Western USA and identify future activities of potential value.

The WSRC Program Committee invites you to submit a proposal for a presentation, panel discussion, or tutorial. We are open to any submission but are especially interested in case studies and the application of systems engineering to:

- Digital Engineering
- Telecommunications / 5G
- Healthcare & Bio Tech
- Social Sciences
- Artifical Intelligence / Machine Learning
- Systems Thinking
- Agile & DevOps

**Submitting a Proposal:**

Proposals (in English) must be submitted through EasyChair, https://easychair.org/conferences/?conf=wsrc2021, and must include:

- Title
- Presenter(s)' name, affiliation, contact information, and brief biography, including any additional presenters or instructors, if any
- Abstract which clearly and concisely describes the subject (1000-word limit). Please ensure that the abstract clearly identifies (1) the issue to be addressed, (2) the main points of the presentation, and (3) what the audience will take away from the presentation
- For panels, please identify why the topic is relevant, panel participants who have committed to participate, and a summary of their position statements
- For tutorials, please identify top-level learning objectives, topical outline, and proposed duration (half- or full-day)
- Presentations are allocated 45 minutes including questions

Each accepted submittal will receive one $50 registration discount. At least one presenter (or the panel chair and all panelists) must register for the conference and pay the applicable registration fee.

If you have questions, please see our contact information on our website at www.incose.org/wsrc.

WSRC2021 will feature an INCOSE Systems Engineering Professional Development Day (SE PDD) on Saturday, September 18, 2021. The SE PDD will be a virtual extension of the conference, with the featured sessions broadcast from San Diego to several satellite sites across the region. Presentations and panels may be selected for participation in the SE PDD.

INCOSE | WSRC Western States Regional Conference

Presenters grant INCOSE the right to record, publish, and distribute their presentations, including audio, video, and slide show content, unless expressly denied in writing. See the INCOSE IP release form: https://www.incose.org/wsrc

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# INCOSE Resources

INCOSE YouTube
2.26K subscribers

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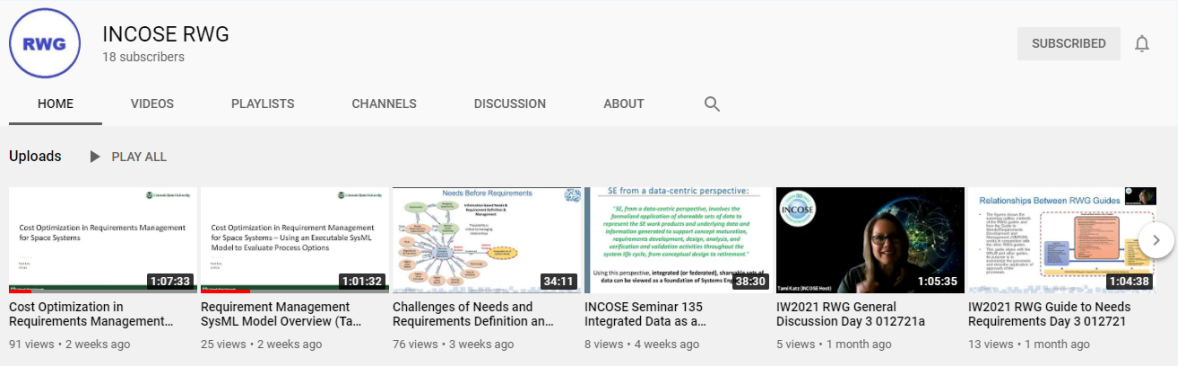
| Computer Exam Step 4 - Exam Questions | Computer Exam Step 3 - ID Verification | Computer Exam Step 2 - Preparing for the Exam | Computer Exam Step 1 - Schedule the Exam | Intro to Certification | IW2021 - What an amazing event |
|---|---|---|---|---|---|
| 1:04 | 1:35 | 1:09 | 1:55 | 1:49 | 1:12 |
| 18 views • 21 hours ago | 12 views • 21 hours ago | 16 views • 21 hours ago | 19 views • 21 hours ago | 54 views • 22 hours ago | 940 views • 2 months ago |

https://www.youtube.com/channel/UCAuI_kWUFKkYs9H5zhY9abQ

# INCOSE Resources

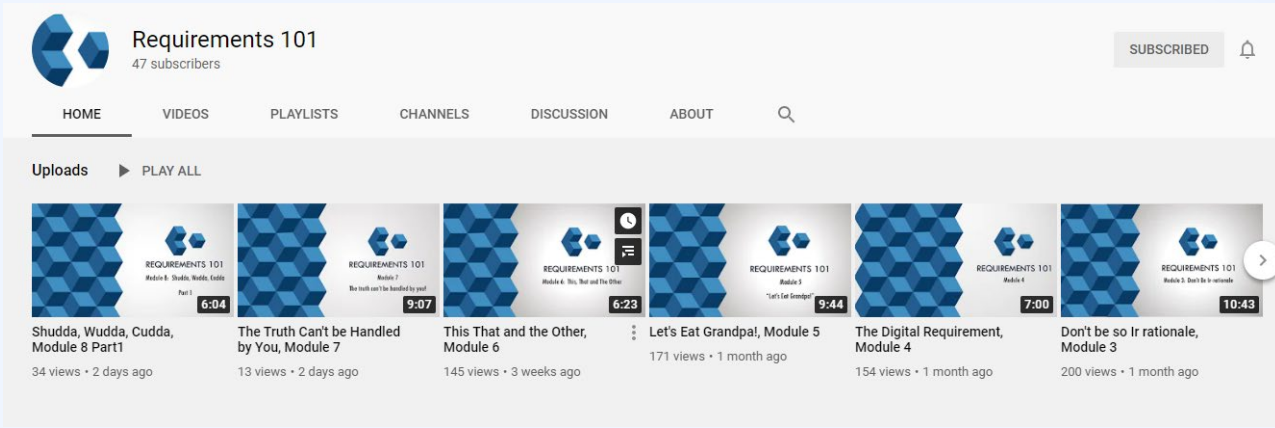
TEXAS GULF COAST

## INCOSE Requirements Working Group




https://www.youtube.com/channel/UCadgYaqKWDckenP2SU8-cPw

## From Oil and Gas Community - YouTube




https://www.youtube.com/channel/UCBp7w3-_dzAKewWKi1ir8eA

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# INCOSE Resources

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https://www.incose.org/incose-member-resources/chapters-groups/ChapterSites/texas-gulf-coast/chapter-home

# Tami Katz, Ph.D.

## Developing and Modeling an Approach for Requirements Management Optimization

- **Description**: In her PhD dissertation, Tami Katz researched options to address an optimal approach of managing requirements for complex systems. This research assessed current practices for requirements and industry trends, and resulted in a proposed a set of processes to enable cost effective solutions while addressing improvement in requirement quality. Some key recommendations include utilization of a data focused requirements management approach (allowing integration with other sets of project data), management of requirements using a collaborative software application, and ensuring the requirement set is a consolidated with an appropriate amount of requirements for the project.
- These processes were modeled using an MBSE system model, which has enabled the assessment of these processes. This presentation will highlight the process improvement recommendations, and show how SysML simulation of these processes can enable insight into the impacts of using different processes on a project.

- **Speaker**: Dr. Tami Katz has recently completed her PhD in Systems Engineering from Colorado State University. She is a Staff Consultant Systems Engineer at Ball Aerospace, and has spent her career focused on the development of space vehicles and components. Dr. Katz is an INCOSE CSEP, and also the chair of the INCOSE Requirements Working Group.

# Backup Slides

# Working Groups & Initiatives by Domains

| Analytic Enablers | Application Domains | Process Enablers | Transformational | Other Groups & Initiatives |
|---|---|---|---|---|
| • Competency<br>• Complex Systems<br>• Decision Analysis<br>• Human Systems Integration<br>• Natural Systems<br>• Product Line Engineering<br>• Resilient Systems<br>• System of Systems<br>• System Safety<br>• Systems Security Engineering<br>• Training | • Automotive<br>• Critical Infrastructure Protection and Recovery (includes Anti-Terrorism International)<br>• Defense Systems<br>• Financial Services<br>• Healthcare<br>• Infrastructure<br>• Oil and Gas<br>• Power & Energy Systems<br>• Space Systems<br>• Telecommunications<br>• Transportation | • Architecture<br>• Configuration Management<br>• Enterprise Systems<br>• Integration, Verification & Validation<br>• Measurement<br>• PM-SE Integration<br>• Requirements<br>• Risk Management<br>• Systems Engineering Quality Management | • Agile Systems & Systems Engineering<br>• Artificial Intelligence Systems<br>• Digital Engineering Information Exchange<br>• Knowledge Management & Ontologies<br>• Lean Systems Engineering<br>• MBSE Patterns<br>• Model-Based Conceptual Design<br>• Object-Oriented Systems Engineering Method<br>• Process Improvement<br>• SE in Early-Stage Research & Development<br>• Small Business Systems Engineering<br>• Social Systems<br>• Soft Skills<br>• Systems Engineering Tools Database<br>• Systems and Software Interface<br>• Systems Science<br>• Tools Integration & Model Lifecycle Management | • Empowering Women Leaders in SE<br>• MBSE Initiative<br>• Smart Cities Initiative<br>• Value Proposition Initiative |

Be ACTIVE in a Working Group or Initiative!

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# Other INCOSE chapters Activities

- INCOSE Enchantment Chapter (NM and El Paso)
  - https://www.incose.org/incose-member-resources/chapters-groups/ChapterSites/enchantment/chapter-home
- INCOSE Los Angeles (LA) Chapter
  - https://www.incose.org/incose-member-resources/chapters-groups/ChapterSites/los-angeles/chapter-home
- INCOSE Washington DC Metro Chapter
  - http://www.incosewma.org/events
- INCOSE Maryland Chesapeake Chapter
  - https://www.incose-cc.org/upcoming-events
- INCOSE North Texas Chapter
  - https://www.incose.org/incose-member-resources/chapters-groups/ChapterSites/north-texas/chapter-events

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# INCOSE Systems Engineering Professional PDU Credit

For more information about INCOSE certification renewal, including PDU categories and limits: http://www.incose.org/certification/CertProcess/CertRenew

## Claim PDUs

You can claim 1 PDU credit towards your INCOSE Systems Engineering Professional (SEP) renewal by attending this entire webinar.

## Eligible Categories To Claim PDUs

- Live attendance at a chapter event: "Attend non-peer-reviewed Professional Technical Society event."
- Watching a recording of an INCOSE event: "Consume SE-related media, including journal article, book, video, or audio."

## Claim PDUs for Other certifications

INCOSE webinars may also apply to the PDU requirements of other organizations, depending on the subject matter.