



2020
Annual **INCOSE**
international workshop
Torrance, CA, USA
January 25 - 28, 2020

SE in Early Stage Research & Development

www.incose.org/IW2020

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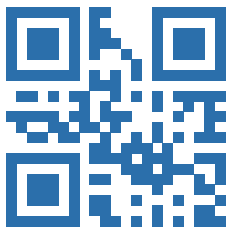
CHAIR

Ann Hodges (alhodge@sandia.gov)

MEMBERS

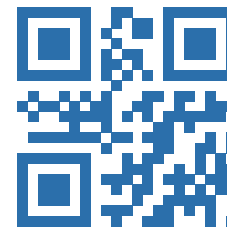
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INCOSE CONNECT ADDRESS



TBD

INCOSE WEB PAGE



TBD

Charter Summary



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WG PURPOSE/MISSION

The purpose of the Systems Engineering in Early Stage Research and Development (ESR&D) Working Group (WG) is to provide an open forum for the development, application, and dissemination of systems engineering principles, best practices, and solutions to scaling systems engineering applications to ESR&D projects so that the level of systems engineering effort is commensurate with risk and that the anticipated ESR&D outcomes are achieved.

WG GOAL(S)

This WG will provide a forum for soliciting, enhancing, and communicating systems engineering principles and activities that are most relevant and create the greatest value for ESR&D projects. This working group will engage other INCOSE working groups and external organizations sharing similar interests and goals. This WG will provide knowledge, guidelines, and frameworks for the application of systems engineering in ESR&D.

WG SCOPE

The ESR&D WG will promote and apply systems engineering principles with emphasis on policy, analysis, and concepts useful to scientists, researchers, systems engineers, and leadership of these groups for the lower TRLs (1-4) and provide strategies, standards, and concepts for better approaches. It will promote and perform activities supporting the stated goals.

IW Outcomes



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IW Outcomes

Socialize the Charter and brainstorm on an ESR&D SE framework that contains guidelines and processes for the "right" and "right-sized" tailored SE practices and products based on a TRL of 1-4 and other characteristics e.g., organizational culture and philosophies.

Planned Work past IW



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PLANNED ACTIVITIES

- Analyze IW20 brainstormed ideas
- identify near- and longer-term tasks and products
- Establish the working group cadence
- Identify leads for working the identified tasks
- Survey references for potential leverage
- Establish a SE-research translation dictionary
- Identify interfaces with other INCOSE working groups

PLANNED WORK PRODUCTS

- Will establish near-term tasks and products with the team

Longer term:

- INSIGHT papers
- IS talks
- ISO 15288 guide for early stage R&D
- "dictionary"
- primer