



**2022**  
Annual **INCOSE**  
international workshop  
**HYBRID EVENT**  
Torrance, CA, USA  
Jan 29 - Feb 1, 2022

# Defense Systems

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[www.incose.org/IW2022](http://www.incose.org/IW2022)

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## MEMBERS

25

## CO-CHAIR

Karl Geist (kgeist@md.metrocast.net)

## INCOSE CONNECT ADDRESS

## INCOSE WEB PAGE

# Charter Summary



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## WG PURPOSE/MISSION

The purpose of the INCOSE Defense Systems Working Group is to create an international forum for defense acquirers & providers that provides a "neutral" body that works on issues that impact specifying, developing & acquiring defense systems & services & to promote the development of systems engineering best practices for defense related systems & become a conduit for networking, establishing a Web presence, & creating & exchanging explicit & tacit knowledge for the defense system community.

## WG GOAL(S)

Goals include:

- 1) Solicit more input from CAB
- 2) Solicit ideas, actions, products, & activities
- 3) Socialize chosen actions & products
- 4) Establish plans to collaborate with other WGs
- 5) Identify Stakeholders
- 6) Become a conduit for networking
- 7) Increase Membership
- 8) Establish a Web presence
- 9) Initiate chosen actions and products
- 10) Deliver ideas, actions, products, and activities for use throughout INCOSE

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## WG SCOPE

The DSWG will accomplish its purpose through the shared understanding and advancement of systems engineering knowledge and products in areas that are of interest to the Defense community, will act much like the other existing WG's, will coordinate & involve all INCOSE Technical Committee's in the selection, evaluation and solution of the initiatives to be addressed by INCOSE. The objectives include improving the people, processes, & resources used in addressing systems challenges. The DSWG is a volunteer group of INCOSE members who are engaged in the practice of systems engineering that include Federal and non-Federal international government agencies, small and large businesses in various government and commercial industries, and the teaching of systems engineering practices in universities throughout the world, which will enhance the skills and expertise of its members.

## OUTCOMES (PRODUCTS/SERVICES)

### SKILLS AND EXPERTISE ENHANCEMENT

The challenge to increase interest in engineering and science is complex and involves many facets of human activity and expertise including the following:

- 1) Ability to utilize SE tools for the creation and sustainment of defense systems products,
- 2) Ability to synthesize component models into expected defense systems characteristics,
- 3) Ability to understand and utilize Situation awareness, diagnosis and assessment, and
- 4) Informatics (including telecommunications and computer technologies and engineering),
- 5) Teleonomics (human motivation and performance engineering),
- 6) Interfacing with Safety engineering,
- 7) Interfacing with Reliability and maintainability engineering,
- 8) Interfacing with Test engineering, and
- 9) Addressing Security Concerns

# IW Outcomes



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## IW Outcomes

This is a list of the intended products/services that will be produced by those participating in the DSWG. Details applicable to these types of deliverables shall be defined in separate Technical Project Plans. Intended products & services include: Develop a repository of knowledge for defense systems, Develop a repository for defense systems standards from international sources, Establish a Community of Practice for defense systems engineers & host & call for contributions to a community on the INCOSE Connect site.

## PLANNED ACTIVITIES AFTER IW

Build Membership and Leadership

## PLANNED WORK PRODUCTS AFTER IW

Discuss various Products and Select ideas to Enhance our role supporting INCOSE.