



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

Natural Systems

www.incose.org/IW2020

Natural Systems



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MEMBERS
35

CO-CHAIRS

Curt McNamara (curtmcn@gmail.com)
Randy Anway (randy@new-tapestry.com)

INCOSE CONNECT ADDRESS



<https://www.incose.org/incose-member-resources/working-groups/analytic/natural-systems>

INCOSE WEB PAGE



<https://sites.google.com/site/incosenswg/>

Charter Summary



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WG PURPOSE/MISSION

Evaluate changes to Systems Eng. processes & communications to take advantage of Natural Systems, including broader relationships between SE---Science--Tech.

WG GOAL(S)

1. Assess State-of-the-Discipline regularly.
2. Cultivate a NS Community of Practice.
3. Share Best Practices & Success Stories.
4. Investigate enhancements to SE practices.
5. Grow in numbers and scope.

WG SCOPE

IW Outcomes



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IW Outcomes

Sessions:

- Introduction and Overview of the Natural Systems Working Group
- How Does Nature Respond to a Changing Climate?
- Joint session with Social Systems and Complex Systems Working Groups
- Function and Bio-Inspired Design
- How Do Engineers Respond to a Changing Climate?
- Patterns and Spatial Abilities
- Natural Models: Joint Session with Systems Science WG
- NSWG and SocWG Future Planning

Planned Work past IW



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PLANNED ACTIVITIES

- Patterns In Nature for SEs
- One day tutorial on natural systems for SEs
- Contribute to handbook revisions
- Collaborate with NASA for bio-inspired design workshop

PLANNED WORK PRODUCTS

- Create first draft of natural systems primer for SEs