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

# Requirements

www.incose.org/IW2020

# Requirements

## CHAIR

Tami Katz (tami.katz@sncorp.com)

## MEMBERS

561

## CO-CHAIRS

Lou Wheatcraft (wheatland.consulting@gmail.com)
Mike Ryan (M.Ryan@adfa.edu.au)
Rick Zinni (rzinni@gmail.com)
Kevin Orr (txorrhome@gmail.com)

## INCOSE CONNECT ADDRESS

https://connect.incose.org/WorkingGroups/Requirements/Pages/Home.aspx

## INCOSE WEB PAGE

https://www.incose.org/incose-member-resources/working-groups/process/requirements

# Charter Summary

## WG PURPOSE/MISSION

Advance the state of the practices, education and theory of requirements engineering and its relationship to other systems engineering functions.

## WG GOAL(S)

Expand and promote the body of knowledge of requirements engineering and its benefits within the systems engineering community.

## WG SCOPE

Activities relating to requirements engineering best practices.

# IW Outcomes

## IW Outcomes

RWG Accomplishments at IS2020 include:

- Generated strategy for RWG products for 2020. New product to be worked on *Needs and Requirements Life-Cycle Manual;* Generated plan for completing the *Guide to Developing and Managing Requirements* and the *Guide to Verification and Validation;* Established roles and responsibilities for existing and new RWG products; the new *Needs and Requirements Life-Cycle Manual* is led by Lou Wheatcraft, *Guide to Developing and Managing Requirements* is led by Kevin Orr, and *Guide to V&V* is led by Raymond Wolfgang
- Coordinated with *INCOSE SE Handbook* editors to plan forward on SE Handbook updates and RWG contributions
- Coordinated with IVV WG for *Guide to V&V* and *Needs and Requirements Life-Cycle Manual* content with respect to verification and validation
- Held discussions on *Integrated Data as a Foundation of Systems Engineering*, including review of various approaches that could be developed to achieve the vision of the RWG white paper
- Pascal Paper held an overview of approach for modeling requirements and design functions to address early requirement and design verification (simulation). Pascal made a request to RWG to provide feedback on the proposed Requirements on Modeling requirement Method and then to benchmark alternative methods to PMM targeting the same modelling goals, will be coordinating an opportunity for RWG input.
- John Nallon held an SETDB Requirement Tool Outbrief and Discussion, along with request for RWG forward actions on tool survey maintenance, inputs to tool, and vetting of tool vendor submissions
- JD Baker held a discussion regarding the OMG request for information regarding the relationship between business requirements and system requirements in the context of the OMG; the RWG membership is encouraged to provide input to the RFI
- Jim Marsh provided a demonstration of IBM"s Requirements Quality Assistant, with request for data to help IBM continue to develop the tool.
- Held active discussions on requirement challenges, and opportunities for future webmeetings for the RWG team.

Charts and minutes are at the RWG IW2020 Connect page:
https://connect.incose.org/WorkingGroups/Requirements/RWGIW2020/SitePages/Home.aspx

# IW Outcomes

# Planned Work past IW

## PLANNED ACTIVITIES

RWG Planned activities for 2020 include:

- Monthly RWG webmeetings for special topics
- Development of two Guides and one Manual in 2020
- Support INCOSE SE Handbook updates
- Support SETDB rollout and maintenance efforts

## PLANNED WORK PRODUCTS

RWG is working on two new guides and one manual in 2020, as well as planning the updates for an existing guide to occur in 2021:

- Needs and Requirements Life-Cycle Manual - Lou Wheatcraft, Product Lead (new, TPP pending)
- Guide to Developing and Managing Requirements - Kevin Orr, Product Lead (new, TPP approved in 2019)
- Guide to Verification and Validation - Raymond Wolfgang, Product Lead (new, TPP approved in 2019)
- Guide to Writing Requirements - Mike Ryan, Product Lead (revision planned 2021)

# Planned Work past IW

**INCOSE RWG Whitepaper:
Integrated Data as a Foundation
of Systems Engineering**

**INCOSE Systems
Engineering Handbook**

**SEBok**

**Needs and Requirements Life-Cycle Manual**

**Guide for
Writing
Requirements**

**Guide to
Developing and
Managing
Requirements**

**Guide to
Verification and
Validation**