



2020

Annual **INCOSE**
international workshop

Torrance, CA, USA

January 25 - 28, 2020

Systems Engineering Quality Management

www.incose.org/IW2020

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CHAIRS

Barclay Brown (barclay@barclaybrown.com)

William Scheible (wgscheib@gmail.com)

MEMBERS

80

CO-CHAIR

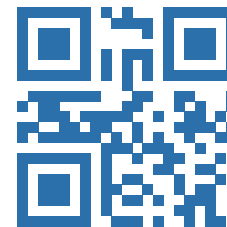
Hazel Woodcock (hazel.woodcock@uk.ibm.com)

INCOSE CONNECT ADDRESS



<https://connect.incose.org/WorkingGroups/SEQM/SitePages/Home.aspx>

INCOSE WEB PAGE



None

Charter Summary



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WG PURPOSE/MISSION

The overall purpose of the Systems Engineering Quality Management Working Group is to foster the definition, understanding and practice of quality management in the systems engineering profession. This purpose will be achieved by the establishment of quality management as a cornerstone of professional development that adds value to the Systems Engineering profession.

Quality Management is one Organizational Project-Enabling Processes found in the INCOSE Handbook Section 7.5 and ISO 15288:201

WG GOAL(S)

- a) Initial publication of a key definitional article on SE Quality Management
- b) Training SEQM Working Group leaders in Quality Management (QM) (continuing)
- c) Continued delivery of regular webinars and tutorials on SEQM
- d) Development of SEQM leadership training for the INCOSE members (Training WG)
- e) Enable and encourage SEQM WG leadership to achieve certification as SE Quality Managers (SEQM) from the QMI
- f) Launch of research efforts on to further develop SEQM and document the results.

WG SCOPE

This working group aims to address quality management as a leadership and management discipline, as applied within systems engineering. This follows the approach to quality management described in the works of Deming, Crosby and Juran, but limits the application to the engineering and systems engineering disciplines.

The working group will also address the connections of quality management to other areas of systems engineering, notably systems thinking and organizational leadership.

IW Outcomes



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IW Outcomes

Building on 2019 and increasing the engagement and partnership with other Incose WG
Delivery of "SEQM" Primer in 2020
Two or three SEQM impact papers based upon industry research and reporting
Proposed IS 2020 panel discussion submitted

Planned Work past IW



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PLANNED ACTIVITIES

Monthly teleconference meetings to discuss ideas, observations and paper/idea developments
SEQM leadership reaching out to other QM organizations for sharing and exchange
SEQM leadership and members reaching out to other INCOSE WGs to offer QM knowledge and understanding on possible impacts/improvements to the WGs.
Member creation of papers for publication, with at least one for INSIGHT
QM guidance/awareness submission(s) to the SE handbook review committee.

PLANNED WORK PRODUCTS

SEQM Primer
Paper on loss of QM and impacts on an aerospace company (Scheible)
Paper on SEQM and inclusion/consideration of change/organizational management needs (UNK)
Paper on QM methods (planned) (Stanfield)
Creation/submission of QM section for SE handbook
Possible inputs on QM for SEBOK reference materials
White papers "Hackers vs Slackers" (Ring) and "Loving Errors" (Brown)
QM Symposium paper submission (waiting approval) (Largent)