



QUALITY LEADERSHIP FORUM

April 22, 2021



National Aeronautics and Space Administration
Office of Safety and Mission Assurance
NASA Headquarters, Washington, D. C.

QUALITY LEADERSHIP FORUM 2021

Virtual Agenda

Thursday, April 22, 1-4 pm EST – Discussion Session 2: Digital Transformation

Digital Transformation (DT) is enabling every occupation and industry to use data and develop models to drive situational understanding and make informed decisions. NASA recognizes the criticality and necessity of digitizing data, using analytics to understand its processes and results, and the enormous value that can be realized by data reuse and modeling. Discussion sessions will explore DT topics with near term relevance to QA.

1:00 – 2:30 pm

Introduce Session, Panel Presentations – Jeannette Plante, Quality Engineering Technical Fellow,
NASA Headquarters Office of Safety and Mission Assurance

Mixed Reality (MR) for Virtual Surveillance – Julee Powers, Marshall Space Flight Center,
Aerospace Engineer, MSFC SMA Independent Assessment Team

How to Store Your Data to Enable Adoption of Modern Data Analytics: NASA's Hardware Inspection Data –
Justin Gosses, Johnson Space Center, Senior Data Scientist OCIO TDD and Elizabeth Wainwright, Johnson Space
Center, Data Scientist OCIO TDD

The Need for Digital Twins for Manufacturing and Supplier Assurance – Jan de Nijs, Lockheed Martin (LM),
LM Fellow, Enterprise Digital Production.

Tagline: *Modeling and digital twins provide an opportunity for both acquirers and suppliers to evaluate their fabrication processes' alignment with customer requirements, suitability for use for particular designs, and more accurate capture of the as-built state.*

2:30 – 3:00 pm

Breakout Room Discussions

3:00 – 4:00 pm

Sharing Discussion Take-Aways – Moderated by Jeannette Plante

Upcoming QLF Topics

Thursday, May 27, 1-4 pm EST – Discussion Session III: Additive Manufacturing (AM)

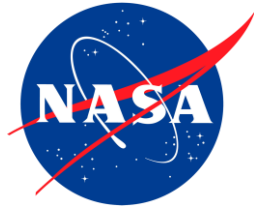
NASA will be releasing two new technical standards for the control and quality assurance of AM processes and products. Two discussion sessions will be held to enable participants to learn about the controls employed by these new standards and the quality problems they aim to prevent.

Thursday, June 24, 1-3 pm EST – Presentation Session I

This session will be used for presentations about individual topics, each approximately 30 minutes, followed by a short Q&A period. The topics include: NASA Workmanship Trainer Process Improvements; Understanding how GMIPs are assigned and accounted for; Feeding digital twins for quality assurance of mechanical parts and systems.

Thursday, June 24, 3-4 pm EST – Presentation Session II (NASA Only)

This session will explain a range of initiatives and processes NASA is using to address cyber-crime threats to NASA from products acquired through the supply chain.



National Aeronautics and Space Administration
Office of Safety and Mission Assurance
NASA Headquarters, Washington, D. C.

<https://qlf.jpl.nasa.gov>