

SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE
ACTIVITIES (D5)

Knowledge Management and Collaboration in Space Activities (2)

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ENABLING ENGINEERING EXCELLENCE IN NASA'S OFFICE OF THE CHIEF ENGINEER

Abstract

Designing, building, and operations space vehicles and instruments is a complex endeavor in the best of circumstances. How can an engineer continue to do their work when risks tradeoffs, schedule constraints, and budget changes affect them? NASA has created an environment that enables engineers to collaborate, connect, and communicate with each other to learn and stay informed of the best methods and practices.

The NASA Engineering Network (NEN) from NASA's Office of the Chief Engineer (OCE) is organized around a set of technical communities (ranging from thermal engineering to nondestructive evaluation) in which each engineer can find a voice and colleagues to help them succeed. Reaching across the four generations of the technical workforce, NEN and a suite of other OCE services capture key engineering decisions and discussions, promote standards, and capture and infuse lessons learned.

This paper will discuss the system's design and share success stories of how NEN supports the daily work of engineers at NASA.