



## Christopher J. Mattenberger

### PSAM12 Speaker Bio

### Research Scientist / Engineer

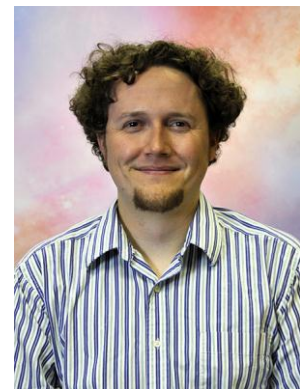
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**Short Statement:** First author of the paper titled Cabin Environment Physics Risk Model

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#### BIOGRAPHY

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Mr. Mattenberger is a Research Scientist/Engineer with the Science and Technology Corporation. His work since 2008 has focused on supporting risk-informed design as a member of several NASA organizations.

Currently, he is a member of the Engineering Risk Assessment team at NASA Ames Research Center, supporting analysis of satellites, launch vehicles, crewed spacecraft, and space mission architectures. Previously, he was involved with the NASA Constellation Program and served as lead reliability analyst with the Spacecraft Conceptual Design Office as well as the Lunar Lander Program Office at NASA Johnson Space Center. Earlier, Mr. Mattenberger received a Bachelor of Science in Aerospace Engineering with Information Technology from the Massachusetts Institute of Technology in 2006, and went on to earn a Master of Science in Aeronautics and Astronautics from Stanford University in 2008. He was recognized with a NASA Superior Accomplishment Award in 2008 for his work on the Altair Lunar Lander, and was recognized with a NASA Group Achievement Award in 2013 for his work on the Commercial Crew Engineering Risk Assessment Team.

His publications include:

Mattenberger, C. J., Nejad, H., “*An Exploration of PRA Methodology used in Spacecraft Design*”, The Proceedings of the Reliability and Maintainability Symposium, 2013.

Manning, T., Nejad, H., Mattenberger, C. J., “*Near-Earth Phase Risk Comparison of Human Mars Campaign Architectures*”, The Proceedings of the Reliability and Maintainability Symposium, 2013.

Mattenberger, C. J., Leszczynski, J., Putney, B., Morse, E., “*Launch Vehicle Reliability Growth*”, The Proceedings of the Reliability and Maintainability Symposium, 2012.

Mattenberger, C. J., Putney, B., Rust, R., Derkowski, B., “*Lunar Landing Operation Risk Model*”, The Proceedings of the Probabilistic Safety Assessment and Management conference, 2010.

Mattenberger, C. J., “*Vehicle Wide Optimization of Subsystem Trade Study Option Selection*”, The Proceedings of the Reliability and Maintainability Symposium, 2010.

Mattenberger, C. J., “*Risk Informed Design Process & Design Team—Analyst Interaction*”, The Proceedings of the Reliability and Maintainability Symposium, 2010.

Putney, B. F., Rust, R., Winter, S., Irlbeck, B., Jones, B., Mattenberger, C. J., “*Insights from the Altair Lunar Lander Risk Informed Design Process*”, The International Applied Reliability Symposium, 2010.