INFORMS-QSR Webinar Series Presents:

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Abstract: This webinar provides an overview of the International Statistical Engineering Association (ISEA), and it illustrates the practice of statistical engineering at NASA. ISEA was formed to promote the study of how successful data-based problem-solving methods are leveraged to realize innovative opportunities and solve problems sustainably. ISEA is comprised of statisticians, engineers, scientists, and other professionals that exchange ideas and experiences in the development and application of statistical engineering theories. ISEA is building the body of knowledge of the statistical engineering discipline with a particular focus on improving academic preparation for tackling complex problems.

Over the past 15 years, the practice of statistical engineering has gained recognition within NASA by spurring innovation and efficiency, and it has demonstrated significant impact. Aerospace research and development benefits from an application-focused statistical engineering perspective to accelerate learning, maximize knowledge, ensure strategic resource investment, and inform data-driven decisions. The second portion of this presentation provides an overview of infusing statistical engineering at NASA through pioneering case studies in aeronautics, space exploration, and atmospheric science.

When: Friday, August 26, 2022, at 11am to noon, EST (New York).

How to Join: Please use the link below to register and join the webinar:

https://ufl.zoom.us/meeting/register/tJUtcOqopjguGdSoiJpcvA0nrn29YhnUGqQL

Passcode **898927**

Bio: Dr. Peter Parker (Ph.D., P.E.) is Team Lead for Advanced Measurement Systems at the National Aeronautics and Space Administration's Langley Research Center in Hampton, Virginia. He serves as an Agency-wide statistical expert across NASA's Aeronautics, Exploration, and Science mission directorates to infuse statistical thinking, engineering, and methods. His expertise is in collaboratively integrating research objectives, measurement sciences, modeling and simulation, and experimental test design to produce actionable knowledge in support of rigorous decision-making in aerospace research and development. After eight years in private industry, Dr. Parker joined NASA Langley Research Center in 1997.

He holds a B.S. in Engineering, a M.S. in Applied Physics and Computer Science, and a M.S. and Ph.D. in Statistics from Virginia Tech. He is a licensed Professional Engineer in the Commonwealth of Virginia. Dr. Parker is an Associate Fellow of the American Institute of Aeronautics and Astronautics, and Senior Member of the American Society for Quality and American Statistical Association. Dr. Parker is Editor Emeritus of Quality Engineering as past-Chair of ASQ's Publication Management Board. He currently serves as Chair of the International Statistical Engineering Association.