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Micro-/Nano-Engineered Materials for Aerospace Applications

Professor Namiko Yamamoto

**Department of Aerospace Engineering,
Pennsylvania State University, USA**

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場所: 東京大学工学部2号館 3F 232講義室

要旨

Improved material alternatives are always in demand for aircrafts and spacecrafts, so that the systems are light-weight, multi-functional, and stable in the extreme environments for long duration.

To achieve realistic, bulk application of these novel materials, we need to develop scalable manufacturing and understand multi-scale material behaviors. These critical research topics will be addressed, using some examples based on Yamamoto's current and former research: CNT-polymer nanocomposites, nano-porous ceramics, and bi-metallic micro-lattices.

