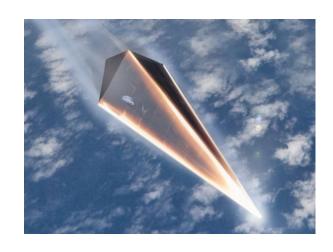
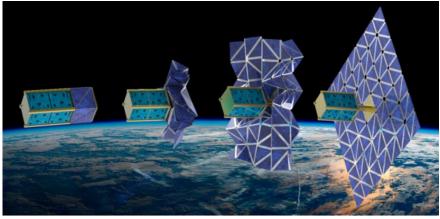
## **Next Generation Challenges for Structural Materials**







extreme environments

high temperatures high strain rate thermal management

extraterrestrial

low temperatures multifunctional reducing SWaP

## <u>architecture</u>

high specific strength cooling channels topology optimization

Material development, discovery, and design aimed at multifunctionality

