SUBMIT AN ABSTRACT BY JULY 1 FOR THE FOLLOWING TMS2023 SYMPOSIUM:

ADVANCED MATERIALS

Steels for Defense

Defense applications require alloys to perform specific defense functions under extreme conditions in addition to providing structural integrity. Because of their versatility, relative ease of manufacturing, and low cost, steels remain the material of choice for many defense applications from ground vehicles to munitions to ships.

The Steels for Defense symposium targets advancements in steel alloy design, development, manufacturing, performance, and sustainment with an emphasis on the processing-microstructure-property-performance relationships in steels. The performance of defense-relevant steels includes, but is not limited to:

- Alloy and processing design to achieve higher performance
- Novel small-scale testing methods to predict high rate performance
- Machining and welding of defense steels
- Model development for predicting durability and sustainment

This symposium welcomes contributions that include techniques from advanced characterization, modeling and simulation, and mechanical and ballistic testing, particularly papers that integrate multiple techniques.

ORGANIZERS

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