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TMS 2020

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Materials Processing

Materials Research in Reduced Gravity

The absence of gravitational effects such as thermal and solutal buoyancy enables investigation of a large range of different phenomena in materials science. These reduced-gravity experiments can isolate phenomena otherwise obscured in ground-based experiments, leading to new discoveries that can improve materials and processes here on Earth. Long-term experiments in microgravity have a long history—from the early days of spaceflight to current experiments on the International Space Station. Ground-based facilities for reduced gravity experiments include drop tubes and towers that provide seconds of reduced gravity, aircraft that provide tens of seconds, and suborbital rockets that provide hundreds of seconds.

Abstracts are solicited in all areas of materials research employing reduced gravity, including crystal growth, containerless processing, materials processing and properties, and experimental facilities for materials research.

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Robert Hyers, University of Massachusetts, USA

Douglas Matson, Tufts University, USA

Michael Sansoucie, NASA MSFC, USA

Shaun McFadden, Ulster University, United Kingdom

Jonghyun Lee, Iowa State University, USA

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Abstract Deadline is July 1, 2019. Submit online at
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Questions?
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