

Connecting the global minerals, metals, and materials community.



Plan Now to Attend:

Frustrated Ferroic Materials

The purpose of this symposium is to bring to the fore very recent and exciting developments related to frustration (i.e. the onset of a glassy-like state) of ferroic degrees of freedom (strain, polarization, magnetization) that result from the interplay between disorder and phase instability. The symposium will bring together experts in the theory, simulation and experimental characterization of frustration in different classes of functional materials. The ultimate goal of the present symposium is to discover commonalities as well as key differences in the underlying physics responsible for the frustration of ferroic phase transitions as a way to better understand and exploit these phenomena.

In this symposium, we propose to bring together different facets of this topic in a single symposium that includes four distinct sessions over a two-day period:

- General theory of frustration
- Relaxor ferroelectrics
- Strain glasses
- Magnetic glasses

The sessions are expected to consist of invited and contributed talks on theoretical, computational, and experimental aspects of frustration in ferroic systems and will include works on the phase stability, kinetics, relaxation behavior, and the effect of frustration on the functional properties of the materials.

Sponsored by:

- TMS Functional Materials Division (formerly EMPMD); TMS Structural Materials Division
- Chemistry and Physics of Materials Committee

Organized by:

Michael E. Manley, Oak Ridge National Laboratory (USA)
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Navdeep Singh, University of Houston (USA)

**For more information on how
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