SOLID STATE PRECIPITATION

Our knowledge of precipitation from the solid state dates back to the discovery of age hardening in Al-Cu alloys. In the intervening century many contributions have been made to explore the thermodynamic and kinetic drivers of these reactions and the resulting morphology.

This symposium will explore recent progress toward understanding this fundamental type of phase transformation. The scope includes experimental, theoretical, and modeling studies of diffusion-controlled precipitation and other phase-separation reactions. Example subject archetypes could include progressive metastable reactions, spinodal decomposition or clustering phenomena which may precede more conventional precipitation mechanisms.

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TMS Phase Transformations Committee