TMS2016
145th Annual Meeting & Exhibition

FEBRUARY 14-18 DOWNTOWN NASHVILLE, TENNESSEE **MUSIC CITY CENTER**

Connecting the Global Minerals, Metals, and Materials Community.

CFD Modeling and Simulation in Materials Processing

This symposium deals with computational fluid dynamics (CFD) modeling and simulation of engineering processes. Papers are requested from researchers and engineers involved in the modeling of multiscale and multiphase phenomena in material processing systems.

The symposium will focus on the CFD modeling and simulation of metal processes, including continuous casting of alloys, EMS (electromagnetic stirring), and UST (ultrasonic cavitation treatment) controlled solidification processes, casting, forging, welding, heat treating, and VAR/ESR/PAM/EBM remelting processes; manufacturing of advanced composites and nanocomposites via controlled melting and solidification processing, additive manufacturing with powder metallurgy (EBAM, LAM, 3D direct metal printing), coatings including PVD, CVD, and plasma-assisted EBM-PVD technologies; and other surface engineering processes including induction, laser, and EB thermal processing.

This symposium also deals with applications of CFD to engineering processes and demonstrates how CFD can help scientists and engineers to better understand the fundamentals of engineering processes.

Organizers include:
Laurentiu Nastac, The University of Alabama (USA)
Lifeng Zhang, University of Science and Technology Beijing (China)
Brian Thomas, University of Illinois at Urbana-Champaign (USA)
Miaoyong Zhu, Northeastern University (China)
Andreas Ludwig, Montanuniversität Leoben (Austria)
and others

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at www.tms.org/TMS2016