

# Pre-nominated Session FM15

## Fluid mechanics of materials processing

Co-Chair(s):        **F. Dupret (Belgium)**  
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<b>Paper ID</b>	<b>Title</b>	<b>Authors</b>
FM15L_10363	Analysis of Flow - Induced, Step - Bunching Instabilities During the Growth of Crystal from Liquid Solutions	Bing Dail, Yong-Il Kwon, Jeffrey J. Derby
FM15L_10860	Relevance of Alfven Waves in Process Metallurgy under a High Magnetic Field	Rene Moreau, Kazuhiko Iwai, Takashi Kameyama
FM15S_11386	Effect of Thermal Boundary Modulation in a Restricted Fluid Domain of a 3D Vertical Bridgman Apparatus	E. Semma, M. El Ganaoui, R. Bennacer, V. Timchenko, E. Leonardi
FM15L_11893	3D Computer Simulation of Time - Depended Solutal Convection	Viatcheslav V. Kolmychkov, O. S. Mazhorova, Yu. P. Popov, P. Bontoux, M. El Ganaoui
FM15S_11903	Liquid and Gas Jets Impinging on a Moving Wetted Surface	Anh V. Nguyen, Geoffrey M. Evans
FM15L_11929	Convective Instabilities in Czochralski Model	V. I. Polezhaev, N. V. Nikitin, S. A. Nikitin
FM15L_12349	New Possibilities for Velocity Measurements and Model Experiments in Liquid Metal Processing	Andreas Cramer, Kapil Varhsney, Gunter Gerbeth
FM15L_12591	Dynamic Simulation of the Entire Crystal Growth Process: Multi - Scale Analysis of Melt Flow Transients	V. Regnier, L. Wu, B. Delsaute, F. Bioul, N. Van den Bogaert, F. Dupret
FM15S_12636	Sensitive Regions and Optimal Perturbations in the Floating Zone Using the Adjoint System	Othman Bouizi, Claudine Dang Vu-Delcarte, Guillaume Kasperski