

TMS 2018



BROADEN YOUR EXPERTISE: REGISTER FOR A PROFESSIONAL DEVELOPMENT EVENT AT TMS2018

DESIGN OF NOVEL MAGNETIC MATERIALS BY MODELLING AND ADVANCED SYNTHESIS AND CHARACTERIZATION WORKSHOP

SUNDAY, MARCH 11, 2018 • 8:30 A.M. TO 4:30 P.M.

The modern world is currently defined by the optimum exploitation of its natural resources to transform them into novel valuable materials in areas such as health, transport, energy and everyday life, in general. Using new state-of-the-art computational and experimental infrastructures will develop future novel materials more efficiently, reducing consecution times and using efficiently the resources available for it and developing a materials database that integrates experimental and theoretical data. This specifically follows the philosophy and standards of the Materials Genome Initiative.

This course is designed for students and young professionals interested in learning about novel computational techniques for predictive modelling, simulation, design, and exploration as genetic algorithms, density functional theory (DFT), and spin/molecular dynamics. Experimentally, the course will complement advanced synthesis and characterization by high-throughput combinatorial synthesis, additive manufacturing, and advanced magnetic characterization.

INSTRUCTORS

Santiago Cuesta, University of Burgos & ICCRAM
George Hadjipanayis, University of Delaware
Heike Herper, Uppsala University
Duane Johnson, Iowa State University & Ames Laboratory
Matthew J. Kramer, AMEA Laboratory
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Ryan Ott, Ames Laboratory
Daniel Salazar, BCMaterials
Thomas Schrefl, Danube University Krems
Lin Zhou, Ames Laboratory

SPONSORED BY

TMS Functional Materials Division;
Magnetic Materials Committee

REGISTRATION FEES

	Advanced	On-Site
Member	\$175	\$225
Non-member	\$225	\$275
Student	\$75	\$125

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