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Education/Training:

Ames Laboratory	Postdoc	1992-1996	Physics
Cornell University	Ph.D.	1992	Physics
Colorado State University	B.S.	1987	Physics

Research and Professional Experience:

2005 – present Department of Materials Science & Engineering, University of Tennessee
2003 – present Oak Ridge National Laboratory
1996 – 2003 Ames Laboratory / Iowa State University

Professional Activities, Honors, Awards:

- Member, Editorial board of *Intermetallics* (2014-present).
- University of Tennessee's Materials Science & Engineering Award, "Faculty Excellence in Teaching," 2012.
- AMS society J. Willard Gibbs Phase Equilibria Award Selection Committee, 2010-2013.
- TMS society John Bardeen Award Selection Committee, 2009-2012.
- ASM Phase Diagram Committee, (2004-2012).
- TMS society Electronic, Magnetic & Photonic Materials Division's Public and Governmental Affairs Committee representative (2008-2011).
- Scientific Review Panel, DOE Basic Research for the Hydrogen Fuel Initiative, March 2007.
- Chair, Chemistry and Physics of Materials Committee, TMS Society (2005-2008).

Selected Publications: (total > 100 refereed journal papers and conference proceedings)

1. M. Claudia Troparevsky, James R. Morris, Paul R. C. Kent, Andrew R. Lupini, and G. Malcolm Stocks, "Criteria for predicting the formation of single-phase high-entropy alloys," *Phys. Rev. X* **5**, 011041 (2015).
2. Ling Li, James Morris, Michael Koehler, Zhiling Dun, Haidong Zhou, Jiaqiang Yan, David Mandrus, Veerle Keppens, "Structural and magnetic phase transitions in $\text{EuTi}_{1-x}\text{Nb}_x\text{O}_3$," *Phys. Rev. B* **92**, 024109 (2015) (Editor's Choice).
3. C. I. Contescu, H. Zhang, R. Olsen, E. Mamontov, J. R. Morris, and N. C. Gallego, "Isotope effect on adsorbed quantum phases: hydrogen and deuterium on nanoporous carbon," *Phys. Rev. Lett.* **110**, 236102 (2013).
4. V. A. Levashov, J. R. Morris, and T. Egami, "The origin of viscosity as seen through atomic level stress correlation function," *J. Chem. Phys.* **138**, 044507 (2013).
5. J. R. Morris, C. I. Contescu, M. F. Chisholm, V. R. Cooper, J. Guo, L. He, Y. Ihm, E. Mamontov, Y. B. Melnichenko, R. Olsen, S. J. Pennycook, M. Stone, H. Zhang, N. C. Gallego, "Modern approaches to studying gas adsorption in nanoporous carbons," Feature article, *J. Mater. Chem. A* **1**, 9341 (2013).
6. Yungok Ihm, Cristian I. Contescu, Nidia C. Gallego, Gerd Duscher, Stephen J. Pennycook, and Matthew F. Chisholm, "Topological Defects: Origin of Nanopores and Enhanced Adsorption Performance in Nanoporous Carbon," *Small* **21**, 3283-3288 (2012).
7. J. R. Morris, H. Bei, E. P. George and G. M. Pharr, "Size effects and stochastic behavior of nanoindentation pop-in," *Phys. Rev. Letters* **106**, 165502 (2011).
8. V. A. Levashov, J. R. Morris, T. Egami, "Viscosity and Atomic Level Stress Correlations in a Model Metallic Liquid," *Phys. Rev. Letters* **106**, 115703 (2011).

9. G. I. Tóth, J.R. Morris, and L. Gránásy, “Ginzburg-Landau type multi-phase-field model for competing fcc and bcc nucleation,” *Phys. Rev. Letters* **106**, 045701 (2011).
10. V. Wessels *et al.*, “Rapid Chemical Ordering in Supercooled Liquid Cu₄₆Zr₅₄,” “Editor’s choice” article, *Phys. Rev. B* **83**, 094116 (2011).

Synergistic Activities:

- Deputy Director, Energy Frontier Research Center for Defect Physics (2010-2014).
- Primary Organizer (with J. Yu, A. P. Horsfield, and N. Li), “Materials behavior under extreme irradiation, stress or temperature,” MRS Spring Meeting, April 2014.
- Co-organizer (with D.J. Singh and D. Mandrus) ORNL Symposium, “Materials for Energy,” 2008.
- International Program Committee, “15th International Conference on Liquid and Amorphous Metals (LAM14),” Beijing, China, September 2013.
- Primary Organizer, EFRC summer school “Defects, Deformation and Damage in Structural Materials,” Knoxville, TN (June 2012).
- Curriculum committee, “Center for Materials Science and Nuclear Fuels (CMSNF) Summer School,” Idaho National Laboratory (June 2011).
- Co-organizer (with R. Arroyave, V. Ozolins and J.J. Hoyt), “Computational Thermodynamics and Kinetics,” TMS Annual Meeting, Feb. 2011.
- Co-organized EFRC summer school, “Atomic-level Response of Materials to Irradiation,” (Santa Fe, 2010).
- International Program Committee, “14th International Conference on Liquid and Amorphous Metals (LAM14),” Rome, Italy, July 2010.
- Co-organizer (with V. K. Pecharsky and A. Tiwari) “Acta Materialia Gold Medal Award Symposium: Recent Developments in Rare Earth Science and Technology,” TMS Annual Meeting, 2008.
- Associate editor, *Philosophical Magazine* 86, No. 24 (2006) issue on Frontiers in Solidification Science.
- Guest editor, *Acta Materialia* **54**, No. 13 (2006), selected papers from “Micromechanics and Microstructure Evolution: Modeling, Simulation and Experiments,” Madrid, Spain, Sept. 2005.
- Visiting associate professor, CNRS, Ecole des Mines, Nancy Cedex, France (June 2005).
- Co-advisor, JOM 2006 topic “Neutron Scattering Applied to Traditional Materials Problems.”

Graduate and Postdoctoral Advisors and Advisees:

Ph.D. Advisor: R. J. Gooding, Queen’s University

J. A. Krumhansl (deceased), Department of Physics, Cornell University

Postdoctoral Advisor: K. M. Ho, Ames Laboratory / Iowa State University

Collaborators from other Institutions (past 48 months):

M. Calvo-Dahlborg and U. Dahlborg, CNRS, France; L. Gránásy, Research Institute for Solid State Physics, Hungary; K.F. Kelton, University of Washington; M. J. Kramer, Ames Laboratory; V. Keppens, Univ. of Tennessee; M. Krčmar, Grand Valley State University; B. B. Laird, University of Kansas; B.C. Pan, USTC, China; A. Rollett, Carnegie Mellon University; X. C. Zeng, University of Nebraska.

Thesis Advisor and Postgraduate-Scholar Sponsor (last 5 years):

Scholars – Jae-Wook Lee (Korean Institute of Materials Science), Yungok Ihm (current postdoc), Raina Olsen (2011-2013).

Students – L.J. Peng (Ph.D. 2012), Alex Arrico (M.S. 2014).

Total number of graduate students advised: 3

Total number of postdoctoral scholars sponsored: 5