

Gregory Lehnhoff



Graduate Institution: Colorado School of Mines

Location: Golden, CO

Graduate Discipline: Metallurgical and Materials Engineering

Hometown: Longmont, CO

Research Interests:

My current research interests include the processing, structure, properties, and performance interrelations in advanced high strength steels that are candidate materials for weight reduction and improved passenger safety in the automobile industry. Specifically I will focus on the stability and influence of metastable retained austenite during fatigue of advanced steels, such as transformation induced plasticity (TRIP) steels. My other research areas relate to numerical modeling and scaling analysis of heat transfer, specifically within gas-metal arc welding (GMAW) electrodes. Other topic areas I am interested in include heat treatment of materials, deformation and forming of materials, welding, casting, nuclear materials, and failure analysis.

About me:

I am a member of the Tau Beta Pi Engineering Honor society and was a Tau Beta Pi Graduate Fellow in the 2009-2010 academic year. I am also a member of Material Advantage, a student program which includes membership in four professional societies: The American Ceramic Society; Association for Iron and Steel Technology; ASM International; and The Minerals, Metals, and Materials Society (TMS). I have also been a member of the American Welding Society (AWS) and attended conferences hosted by both TMS and AWS. As an undergraduate I received numerous academic and industrial scholarships, and was active in both Tau Beta Pi outreach initiatives and in my school's foundry club, which hosts events aimed at promoting metallurgical engineering to students of all levels. My current career goals are to complete my PhD and present the results of my work in conferences and peer reviewed publications while still remaining active within my school and department. My personal interests include skiing, snowboarding, and hiking.



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