ASM Eastern NY and AWS Joint Meeting
Tuesday, February 9th, 2016

Join us for networking, dinner, & a technical presentation at Shaker Ridge Country Club

802 Albany Shaker Rd, Albany NY 12211
Phone: (518) 869-0246

Social Hour: 5:30 pm
Dinner: 6:30 pm
Talk: 7:45 pm

“Towards Real Time Adaptive Control of Microstructural Evolution”
Dan Lewis
Dept. Materials Science & Engineering
Rensselaer Polytechnic Institute

Abstract
This talk focuses on developing the methodology and algorithms necessary to actively control materials processing to achieve a target microstructure. By synthesizing real time experimental characterization, process control, and microstructure simulation we seek to predict, monitor and adaptively control microstructural evolution during materials processing. While the initial focus is thermal processing of polycrystalline metals, specifically control of grain growth in Cu, we anticipate that the methods we develop should be extensible to a broader range of processing parameters. In addition to experimental results and methodologies developed to date, a brief discussion of the research team’s future direction will be presented. This is real cutting edge work and shows where welding is going. It offers a real good chance to keep up to date.

About the Presenter
This talk is the joint effort of Robert Hull and Dan Lewis of the Dept. of Materials science & Engineering, RPI, and Antoinette Maniatty and John Wen of the Dept. of Mechanical Engineering, RPI. Several graduate students also contributed to the project.
RSVP dinner choice by **Thursday Noon, February 8th, 2016**

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**Dinner Menu**

- Chicken Francaise
- Stuffed Shrimp
- Roast Beef w/ mushroom onion gravy
- Vegetarian

Pick one entree

**Cost:** $10/professionals and guests, retirees, students

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**Directions:**

The Shaker Ridge Country Club is located at 802 Albany Shaker Road. Turn off Albany Shaker Road towards the Hilton Garden Inn and then make an immediate right for Shaker Ridge CC.