

## SME Chapter 69 Oakland/Macomb



### MAY 2007 BULLETIN

All SME Chapter 69 meetings, unless otherwise announced, are held on the 2nd Wednesday of every month in the Advanced Technology Center on the OCC Auburn Hills Campus. The technical presentation starts at 6:00 p.m. and dinner is served at 7:00 p.m. Members and guests are welcome. There is no charge.

A map of the campus can be found at:

<http://www.oaklandcc.edu/Maps/AHCampus>



#### **May 9, 2007 Technical Presentation Metrics for Prognostics & Health Management (P&HM) for Plant Floor Systems Applications**

Leandro G. Barajas, Ph.D., Senior Research Engineer  
Plant Floor Systems & Controls Group  
Manufacturing Systems Research Laboratory  
General Motors R&D Center, Warren, MI

The aim of this talk is to discuss evaluation criteria for P&HM effectiveness in addition to metrics and practical considerations for feature extraction and signal characterization. Dr. Barajas research focus includes automotive e-manufacturing optimization, virtual manufacturing, and diagnostics and prognostics for plant floor systems and controls. His professional affiliations comprise among others IEEE, SAE, Sigma Xi, and SME where he is an active member and Programs Chair of the Oakland/Macomb Chapter 069 and a Tech Group Leader of the Machine Vision Technical Group.

### Chapter 069 Officers

Chair - John Dinovski, CMfgE

Chair - Elect - Vern Speidel, CMfgE

Treasurer - Jack Wagner, CMfgE

Secretary - Alan Wolfe

Membership Chair - Bob Petrach, CMfgE

Programs Chair - Leandro Barajas, PhD

Certification Chair - Larie Smith, CMfgT

Communications Chair - Doug Ruffley, PE, CEM

### Chapter 069 Welcomes Two New Members!

SME Chapter 069 is pleased to welcome two new members this month. The new members are:

**James P Caie Jr** - Vice President, Arc Advisory Group

**Andy Baszczuk** - District Manager, Crucible Steel

### Summer Schedule

This month's meeting will mark the last meeting and technical presentation until September. However, we do have some summer events in the planning stage. Please check the Chapter 069 website for updates and information regarding our Summer Events.

<http://chapters.sme.org/069/homepage.htm>