



Motor & Motion College

SMMA 2009 Spring Management Conference **Pre-Conference Options**

Wednesday, May 6th, 2009 1:00-5:00 pm
Rancho Bernardo Inn, San Diego, CA

Half-Day Course:

“Selected Topics in Electric Machine Design”

Prepared and presented by Keith W. Klontz and Howie Li

Part 1: Design Concepts – The One Tooth Winding (aka Concentrated Coil, Bobbin Coil, Modular Coil, Segmented Tooth)

- Winding design review
- Where 1-tooth coils fit in the big picture
- The magnetic field
- The copper fill factor
- Effect on torque
- Effect on efficiency
- Effect on manufacturability & cost

Part 2: Design Applications – Technology Review of Small (under 50kW) Wind Generator Systems

- Wind system
- Grid
- Storage
- Control
- Examples & resources

Part 3: Design Tools – How and When to Shop for FEA Software

- What to expect of today's FEA software
- How licensing is structured
- Determining the types of analysis, issues addressed, results obtained
- Expectation of total commitment needed in hardware and personnel
- Non-software issues to consider

SMMA schedules courses prior to their 2009 Conferences. Visit the SMMA web site, www.smma.org, for details.

SMMA 2009 Spring Management Conference

May 6-8, 2009

Rancho Bernardo Inn
San Diego, California

SMMA 2009 Fall Technical Conference

November 3-5, 2009

Sheraton Chicago Northwest
Arlington Heights, Illinois