

**MAY 2007
AWARDS NIGHT!**

WHEN:

Thursday, May 31st, 2007

SCHEDULE:

5:30 p.m. **Social Hour**

6:00 p.m. Dinner: Selection of Cuban entrees,

6:30 p.m. **AWARDS PRESENTATION**

7:00 p.m. **Officer Nominations and Voting**

7:15 p.m. **Speaker Presentation:**
Dr. Khaled Morsi

WHERE:

Andres' Cuban Restaurant

1235 Morena Blvd.
San Diego
(619) 276-4624

COST:

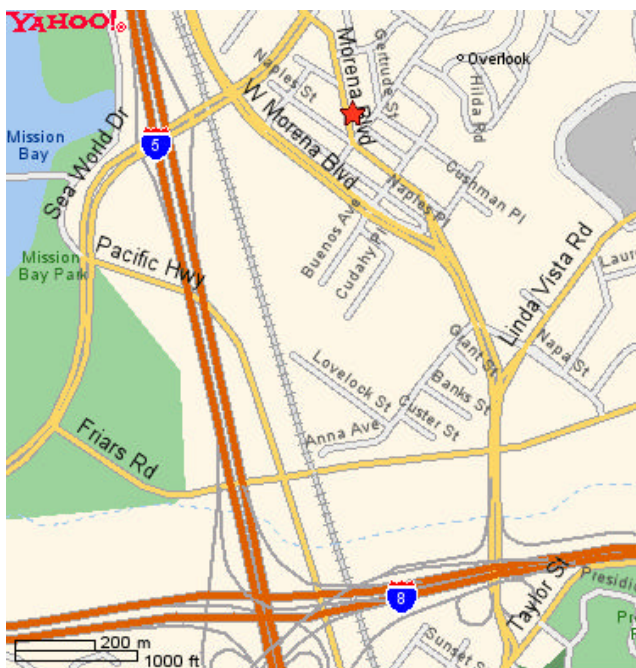
ASM Members - \$15

Students - \$10

Non-members - \$20

Award Recipients and their immediate family – FREE

RESERVATIONS: required by 5/30/07



**Reactive Processing of
Intermetallics and their Composites**

Presented by

Dr. Khaled Morsi

Associate Professor of Mechanical Engineering,
San Diego State University

Abstract

Combustion synthesis is a low-energy process that utilizes the exothermic heat of reaction between elemental powders to form advanced materials at low starting temperatures and in short processing times. Despite its unique advantages as a process, its' main shortcoming is the generation of unwanted product porosity. The talk discusses novel processing approaches that can form high-density intermetallics via combustion synthesis processes, focusing on recent work by the presenter and his group in the field.

Bio

Dr. Morsi's general area of research is Materials Science with a specific focus on Powder Technology. He obtained his PhD from the Department of Materials, University of Oxford, UK (1996) in the processing & properties of ceramic matrix composites. In October 1999 he joined the Department of Mechanical and Aerospace Engineering, University of Missouri- Columbia. The research covered a number of topics including reactive thermomechanical processing of intermetallic materials and nanoceramics for orthopedic implant applications. He joined his current Department of Mechanical Engineering, San Diego State University in July 2003. Dr. Morsi's general interest lies in powder technology and processing-microstructure-property relations in metallic, ceramic and composite materials, in which he has published numerous journal including Powder Technology, Engineering Materials, Nanomaterials, Thermodynamics and Advanced Materials Processing.

CONGRATULATION AWARD RECIPIENTS!

ABE HURLICH SCHOLARSHIP AWARD WINNER

Vipulkumar V Patel

Materials Engineering Graduate student from San Diego State University

2007 GREATER SAN DIEGO SCIENCE FAIR AWARD WINNERS

Drew Vecchio

Project Title: Suppressing Metal Alloy Melting Temperatures: Does Size Matter?

School: Marshall Middle

Grade: 8

Advised by: E. Gillum

Ricky Pamensky

Project Title: Does the Density of Metal Affect the Rate of Conduction?

School: S. D. Jewish Academy

Grade: 8

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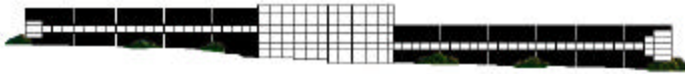
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The e-mail for San Diego Chapter has recently been changed and all members are requested to correct it. The new e-mail address is asmsandiego@gmail.com. We apologize for any inconvenience!



**San Diego
Chapter**

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