

# Notre Dame Chapter

# The Link Newsletter

**A Five Star Chapter**



## March Meeting

### Past Chairman's Night

#### The History of Iron and Steelmaking

**March 18, 2008**

The March meeting of the Notre Dame Chapter of ASM International will feature this presentation by Notre Dame Chapter member Dr. Richard Rateick, Jr., PE, of Honeywell, Inc.

Rick is a Sr. Principal Engineer at Honeywell and an avid collector of antique metallurgical books and artifacts. He has toured many historical and existing steel mills, and has worked for over 20 years in the area of materials research and development for the fuel controls and systems.

Some readers may remember his previous presentations to the Chapter and a Chapter-sponsored educational seminar in 2005. His work has focused on mechanical behavior, corrosion of material and coatings, and tribology. Rick received his MS and PhD from The University of Notre Dame.

**To improve our delivery of the LINK, and reduce our postal costs, please provide a current e-mail address to the Chapter Secretary, John Ullman ([john.ullman@honeywell.com](mailto:john.ullman@honeywell.com))**

**Date:** Tuesday March 18, 2008

**Meeting Time & Agenda:** 6:00 PM Social, 6:30 PM Dinner, 7:15 PM Presentation

**Meeting Location:** Greenfield's Cafe in the Hesburgh Center, Notre Dame, IN (see driving directions and maps on pages 3 thru 5)






**Dinner Choice:** Polish Buffet (Chicken, Sausage, Cabbage, Noodles, Mashed Potatoes, Beans, Rolls, Pie, Coffee, Iced Tea)

**Cost:** \$20 (Past Chairmen free)

**Parking:** Just south of the Hesburgh Center (Free)

**To Make Reservations:** RSVP by March 14: Ph. (269) 982-2266 or [mailto:david\\_coulston@leco.com](mailto:david_coulston@leco.com) ([david\\_coulston@leco.com](mailto:david_coulston@leco.com))

## Materials Musings

<b>Li</b> Solid	<b>Cs</b> Liquid	<b>H</b> Gas	<b>Tc</b> Synthetic
 Alkali metals	 Alkali earth metals	 Transition metals	 Rare earth metals
 Other metals	 Noble gases	 Halogens	 Other nonmetals

Iron, nickel, aluminum, copper, and titanium. If your metallurgy education was acquired in the 20<sup>th</sup> century, you probably didn't learn much in school about alloys based on other metallic elements. Maybe you had the odd assignment on precious metals, magnesium, or zinc alloys. Has anything changed since then? Yes and no. Composites, metallic glasses, and some

**Continued...**

## Materials Musings, continued:

interesting new intermetallics such as Mo-Si-B and the aluminides are getting a lot of attention. Microalloying research is making waves in several alloy systems. But, new structural alloys based on previously unexploited metallic elements? Maybe not. Maybe we should dust off the (probably apocryphal) quotation attributed to the Commissioner of the US Patent Office in 1899: "Everything that can be invented has been invented." [What do you think?](#)

## Meeting Schedule for the 2007 to 2008 Year

### April Meeting

On April 15, celebrate your tax refund along with membership award recipients by dining at the boathouse in Warsaw! Dr. Lawrence Salvati, Director of Biointerface at DePuy Orthopaedics will present:

### *“Surface Characterization of Medical Devices”*

Larry will discuss how surface chemistry can make a difference in the biomedical performance of materials.

### May Meeting

On May 13, our year-end social meeting will be a tour of the South Bend Chocolate Factory.

The meeting schedule for the remainder of the year is also listed on the ND Chapter home page (<http://www.nd-asm.org>).

## February Meeting Review

The Engineers' Week presentation at Windsor Park was an interesting look at NASA's space exploration program. The speaker made a convincing case for continuing exploration of our solar system, and emphasized that contributions are being made by young engineers of many different disciplines. The meeting was well attended by members of a number of Michiana's engineering societies, thanks to the efforts of Chairman Jim Koontz and his associates.

## 2007 – 2008 Chapter Directory

Better late than never! The directories have been printed and will be available to members at both the March and April chapter meetings.

An Adobe (pdf) electronic version is available via e-mail. All members who currently allow ASM to send e-mail will receive a broadcast offering no later than March 17. Simply hit "reply" (no text necessary), and your electronic copy will be sent.

After the broadcast distribution, any member may also contact the Chapter Secretary for a copy:

[john.ullman@honeywell.com](mailto:john.ullman@honeywell.com)

Just enter "Send directory" in the subject field.

## Driving Directions to Greenfield's Café

### From 933 (US 31/33)

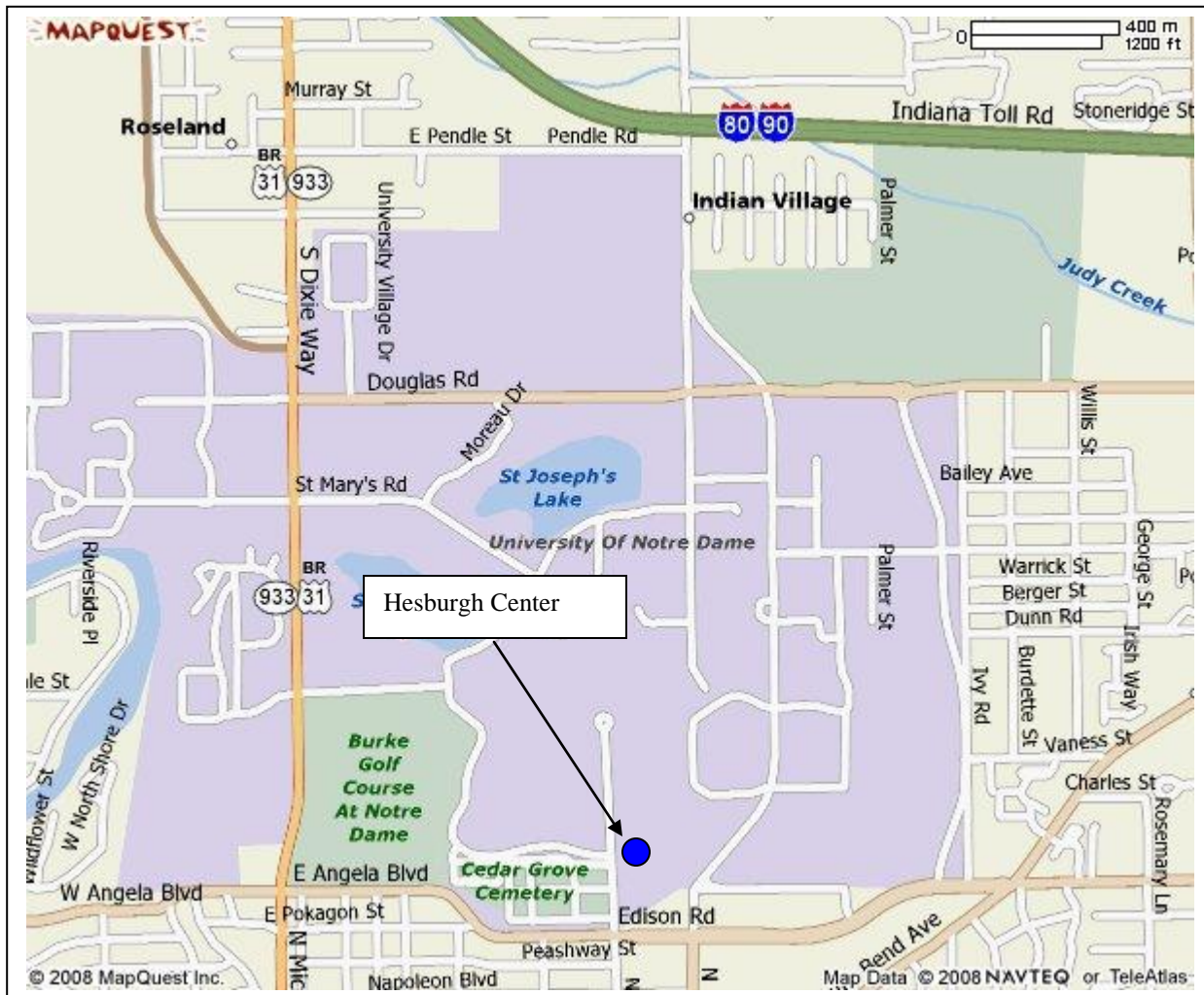
- Drive east on Angela Blvd to the main entrance to the campus at Notre Dame Ave
- Turn left (north) on Notre Dame Ave.
- Take the first right into the parking lot
- The Hesburgh Center is the building at the north edge of the parking lot.

### From SR 23

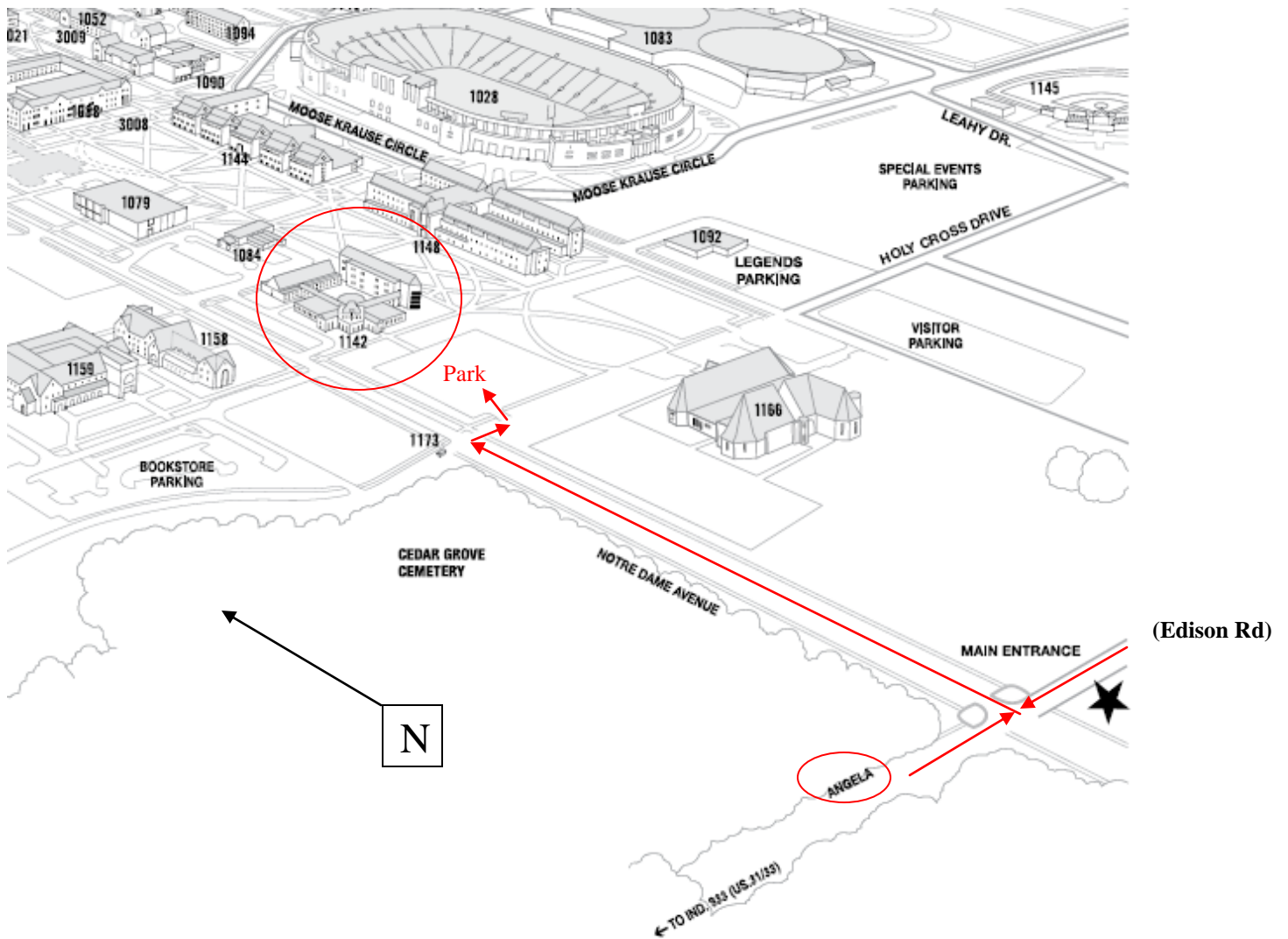
- Drive west on Edison to the main entrance to the campus at Notre Dame Ave.
- Turn right (north) on Notre Dame Ave.
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**(See the maps on the following pages)**

## Greenfield's Café at the Hesburgh Center



**Chapter Officers:** Randal Griffith – *Chairman* (574) 231-2807; Dave Coulston - *Vice Chairman* (269) 982-2266; John Ullman – *Secretary* (574) 231-2859, Rick Gordon – *Treasurer* (574) 272-9209; Jim Hendricks – *Past Chairman*, Al Miller – *Student Advisor*; **Board Members:** Walt Hornberger, Bob Merryfield, Rick Rateick, Tim Conrad



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