

May 2009

Rock River Valley Section

[www.ieee.org/rrvs](http://www.ieee.org/rrvs)

Event

Sense

The Institute of Electrical and Electronic Engineers, Inc.

RRV Section Picnic and 2010 Section Officer Elections

## Annual Section Picnic and Election

When Thursday, May 28, 2009

### Where

Hamilton Sundstrand Park,  
North Pavillion 2 (see map on  
page 2), on Newburg Road  
north of the Chrysler Plant in  
Belvedere.

### Agenda

6:00 PM Networking  
6:30 PM Dinner  
7:30 PM Elections

### Program

Picnic and RRVs officers elec-  
tion. Members and friends are  
cordially invited to attend the  
Annual RRVs Section Picnic  
on May 28, 2009. The RRVs  
will provide the food and drink  
**FREE OF CHARGE TO IEEE  
MEMBERS.** In addition, 2010  
RRVs elections will be held.

### Meal/Reservations

Dinner will be **steak, chicken,  
salmon or veggie burgers;**  
vegetables, corn on the cob,  
fruit, pop, dessert and much  
more! Please make your **din-  
ner reservations** by calling  
**Ginger at 815-394-5696** or  
sending her an email  
([ginger.spinasanta  
@hs.utc.com](mailto:ginger.spinasanta@hs.utc.com)) by **Tuesday,  
May 26, at noon.** Please in-  
clude the following information:

## THE MEAL IS ON US!

(For IEEE Members)

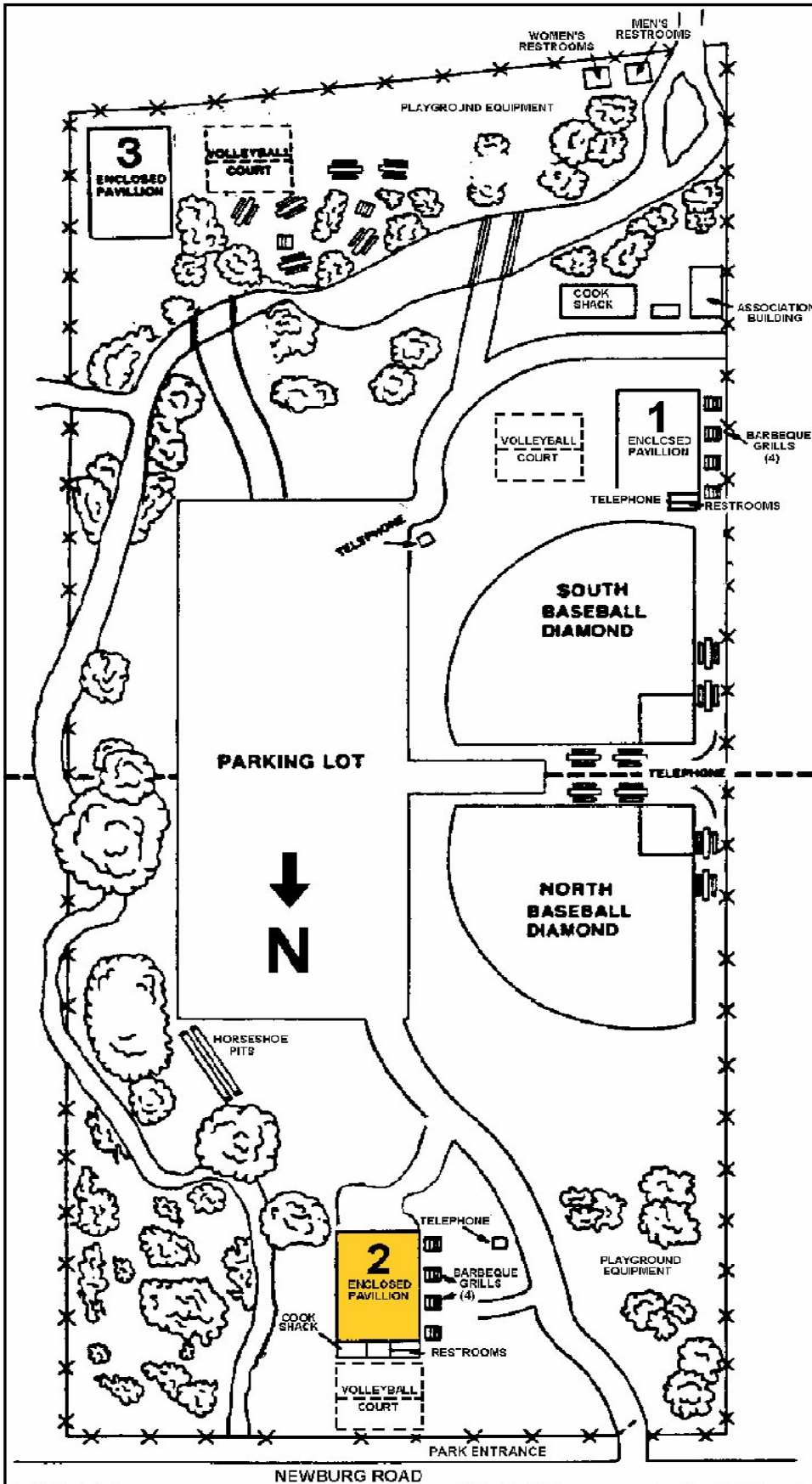
your dinner choice  
(steak, chicken, salmon,  
or veggie burger),  
name, phone number,  
email address, and  
IEEE member number.  
Dinner is FREE for  
members and student  
members, \$20 for non-  
members and \$10 for  
non-member students.  
**IEEE MEMBERS WHO  
ARE NEW AS OF FEB  
1, OR THOSE WHOSE  
MEMBERSHIP HAD  
LAPSED AND WHO  
SUBSEQUENTLY RE-  
NEWED AFTER FEB 1,  
MUST BRING THEIR  
2009 IEEE MEMBER-  
SHIP ID TO SHOW  
PROOF OF ACTIVE  
MEMBERSHIP.** Unem-  
ployed members may  
call one of the officers  
for special arrange-  
ments.

### Note

The meeting is open to the general public. You need not be an IEEE member. Guests are welcome. However, please call to enable us to make appropriate arrangements.



# Hamilton Sundstrand Park



## April Meeting Recap

The April RRVs meeting was held at Rock Valley College's Woodward Technology Center on Thursday, April 30. This joint RRVs and IEEE Chicago/Rockford Consultants Network Meeting featured two speakers speaking on three topics. Yours truly, Bob Parro, VP Business Development with River North Solutions gave a compressed but interesting presentation on *System Engineering Tools, Processes, Methodologies*. The talk focused mainly on the INCOSE (International Council on Systems Engineering) organization and website and the many incredible resources available, including system engineering tool feature and comparison databases, the Systems Engineering Handbook, access to a plethora of Working Groups including Requirements Engineering, access to the Requirements Engineering Guide for All (REGAL) which is a web-based tool to collect, share and evolve Systems Engineering good practices and is intended to be a requirements engineering Book of Knowledge, an extension to REGAL call RAFT (Requirements Assessment tool For Teams) which aids in selecting the most relevant practices and tools for your project.

Dr. Gary Blank, independent engineering consultant in control systems, motor control, power electronics, and power, discussed two topics, *Brushless Motor Fundamentals*, and *Why Every Section Needs a Consultants Networks*. In Gary's usual entertaining style, he gave a layman's overview of motor fundamentals and then gave a compelling rationale for formation of a Consultants Network in every section.

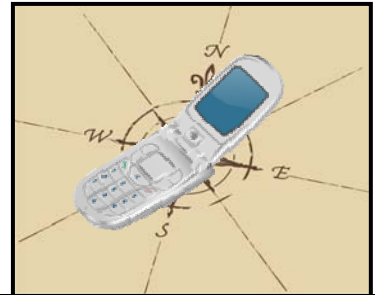
Both presentations are available on the RRVs website.



# 2008/2009 YEAR-IN-REVIEW

## September 2008 V >>

**Mr. Rakesh Dhawan**, President of Electric Motion Systems LLC, presented *Advanced Electric Vehicle Concepts for Designing Electric Bicycles*, and provided access to 2 electric bikes for the public to test ride for a couple of hours prior to the meeting. V



## October 2008 V

**Mr. Roy Leventhal**, co-owner of Leventhal Design & Communications, presented *Modeling & Simulation for Signal Integrity & EMI*. V

## November 2008 ^

**Jack Kozik**, CTO, Director of Architecture, Americas for Alcatel-Lucent's Applications Business Group presented *Do you know where I now? Good!(!?)* at the annual joint RRVS/NIU Student Branch meeting.



## January 2009 V

**Dr. Alejandro Dominguez-Garcia**, an assistant professor at the University of Illinois – Urbana-Champaign, presented *Design for Reliability of Energy Processing*. V

## ^ February 2009 ^

**David Rodriguez**, Senior Designer at Vicarious Visions, involved in developing *"Guitar Hero: On Tour"* and *"Guitar Hero: World Tour"*, presented *Making Fun: Your Future in Video Games* in addition to providing 2 hours of live *Guitar Hero* game trials.



## ^ April 2009 ^

**Bob Parro**, VP Business Development at River North Solutions, discussed *Systems Engineering Tools, Processes, Methodologies*, and **Dr. Gary Blank**, independent engineering consultant in control systems, motor controls and power, presented *Brushless Motor Fundamentals* and *Why Every Section Needs a Consultants Network*, in a joint RRVS and IEEE Chicago/Rockford Consultants Network Meeting.




## ^ March 2009

**Dr. Sergiu Radu**, Principal Engineer and leads the EMC Design group at Sun Microsystems in Menlo Park, presented *Engineering Aspects of Electromagnetic Shielding* covering both the theoretical and practical dimensions of electromagnetic shielding.

## ^ May 2009 ^

Annual picnic and election of 2010 RRVS officers at Hamilton Sundstrand Park in Belvidere features steak, chicken, salmon and veggie burgers on the grill.



**Rock River Valley Section**  
Established 1947

Celebrating 125 Years  
of Engineering the Future

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**Update Your Own IEEE Member Contact Info Online**

[services1.ieee.org/membersvc/coal/intro.htm](http://services1.ieee.org/membersvc/coal/intro.htm)

**NEW! Professional Development Course!**  
**Engineering Analysis and Automation Using Excel and VBA**

- Offered through XyoTech Engineering Associates
- **July 13-16, 2009** (4 days) in Rockford, IL
- 20% Discount for IEEE Members \$1,595 (vs. \$1,995)
- Structured techniques for developing spreadsheet analysis tools for common and specialized engineering tasks
- In depth VB Automation to streamline analyses and automate repetitive tasks

For registration assistance contact Joshua Boxer at XyoTech Engineering Associates at 877.234.7586, or visit the XyoTech website ([www.xyotechengineering.com/vba](http://www.xyotechengineering.com/vba)).

## Calendar

- May Section Picnic/Elections** ..... **May 28**  
Annual RRVs Section Picnic and 2010 Officer Elections at Hamilton Sundstrand Park in Belvedere, IL
- September Section Meeting** ..... **September 24**  
Topic and Speaker TBD at Rock Valley College in Rockford, IL
- October Section Meeting** ..... **October 29**  
Topic and Speaker TBD at Rock Valley College in Rockford, IL
- November Section Meeting** ..... **November 19**  
Topic and Speaker TBD at NIU Engineering Building in DeKalb, IL

# Rock River Valley Section Chapters




Industry Applications Society Chapter

*Established 1992*




Joint Computer/Control Systems Society Chapter

*Established 1995*



Power Electronics Society Chapter

*Established 1996*



Electromagnetic Compatibility Society Chapter

*Established 2007*

### Time-Sensitive Material

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