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October 2007

Rock River Valley Section  
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Event

Sense

The Institute of Electrical and Electronic Engineers, Inc.

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Computer/Control Systems, PELS and IAS Chapters Meeting

## Residential Solar Power in Illinois

**WHEN** Thursday, October 25, 2007

### WHERE

Rock Valley College, Woodward Technology Center, Rooms 117/119. I-90 to Riverside Blvd., exit and go west to Mulford Rd. Go south to 2nd light, turn east into RVC. Follow road to left to last building on right.

### AGENDA

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

### Program

Solar power is catching on fast. While it represents less than 1% of the current electricity supply, it is growing at about 40% per year. In this presentation, I will outline some of the pros and cons of solar power in Illinois. This will include a review of two solar projects recently completed in Urbana: the Solar Decathlon house (a.k.a. The Elementhouse) and the new system at my private residence. Some topics covered include overall viability of solar power in Illinois, performance, legal and administrative obstacles, rebates, and cost. The seminar will conclude with a look at some of the promising new technologies that may bring solar power to market even faster.

### Speaker

**Patrick Chapman** (S '94, M



'00, SM '05) is Grainger Associate and Associate Professor at the University of Illinois at Urbana-Cham-

paign and a co-founder of SmartSpark Energy Systems, Inc. He received a Ph.D. from Purdue University in 2000, and the Bachelor's and Master's degrees in electrical engineering from the University of Missouri-Rolla in 1996 and 1997. He is a Senior Member of the IEEE, Associate Editor for IEEE Transactions on Power Electronics, and a Member-at-Large for the IEEE Power Electronics Adcom. He has received the National Science Foundation CAREER Award and the Office of Naval Research Young Investigator Award. He was named the Richard M. Bass Outstanding Young Power Electronics Engineer in 2006. His research in-

terests within power electronics include integrated design, electromechanics, automated modeling, hybrid energy systems, and energy harvesting.

### MEAL INFORMATION

Dinner will be Roast Turkey with gravy and mashed potatoes, steamed mixed vegetables, tossed salad, rolls (whole grain) and butter, fresh fruit plate and mini mixed desserts. The second entrée is vegetable lasagna. Soft drinks will be provided. The costs are: member: \$5, non-member: \$10, student members: \$2, and student non-members: \$3. Please make your **dinner reservations** by **calling Ginger at 815-394-5696** or **sending her an email (ginger.spinasant@hs.utc.com) by Monday, October 22, at 5pm**. Please include the following information: your name, phone number, email address, IEEE member number, and choice of entree. Unemployed members may call the treasurer for special arrangements.

### NOTE

The meeting is open to the general public. You need not be an IEEE member to attend. Guests are welcome. Please call Ginger at 815-394-5696 for questions.

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**May Election Results for 2008 RRVS Officers and Chapter Chairs**

The proposed slate of candidates (there was only one nomination for each position) was unanimously elected by a voice vote:

**Chair**—Joe Etminan

**Vice Chair**—Paul Hofmann

**Treasurer**—Adrian Vandergrift

**Secretary**—Larry, Wachowiak

**Computer/Control Systems Chapter Chair**—Byron Mehl

**PELS Chapter Chair**—Neal Clements

**IAS Chapter Chair**—Alkesh Patel

**September Meeting/Tour Recap**

Kudos to the Hamilton Sundstrand team (many of which are on the RRVS Executive Committee) for the outstanding presentations and tour that were provided on September 27th. Highlight images:

< Hamilton Sundstrand content on the 787 Dreamliner

Lower left—Hamilton Sundstrand product pie chart

Lower right— Space, Land & Sea product pie chart

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## **2007 IEEE RRVS Executive Committee**

<p><b>Joe Etminan</b> Chair joeetminan@ieee.org 815-921-3058</p>	<p><b>Paul Hofmann</b> Vice Chair, paul.hofmann@ hs.utc.com 815-226-3876</p>	<p><b>Larry Wachowiak</b> Secretary l.wachowiak@ieee.org 815-397-9090</p>	<p><b>Adrian Vandergrift</b> Treasurer aevandergrift@ieee.org 815-226-2518</p>	<p><b>Jitendra Solanki</b> PACE &amp; MD Chair j.solanki@ieee.org 815-394-5675</p>
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<p><b>Bob Parro</b> Newsletter Editor b.parro@ieee.org 815-877-6670</p>	<p><b>Alkesh Patel</b> IAS Chapter Chair alkesh.patel@ieee.org 815-394-2487</p>	<p><b>Prof. Don Zinger</b> NIU St Br Counselor d.zinger@ieee.org 815-753-0540</p>	<p><b>Nolan Wanner</b> Member-at-large n.wanner@ieee.org 815-394-5922</p>	<p><b>Neal Clements</b> PELS Chapter Chair n.clements@ieee.org 815-226-6182</p>
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### **Northern Illinois University Student Branch Officers**

<p><b>Randy Gruberman</b> Chair</p>	<p><b>Sameer Parikh</b> Vice Chair</p>	<p><b>Avinash Nail Mohammad Khan</b> Treasurer</p>	<p><b>Mohammad Khan</b> Secretary</p>
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*Messages for student officers can be left at the NIU Dept of Electrical Engineering, (815) 753-9974 or e-mail at sb.niu@ieee.org*

***The Rock River Valley Section gratefully acknowledges the following companies and colleges for supporting Section Officers:***

***Hamilton Sundstrand • Northern Illinois University •  
Rock Valley College • River North Solutions***

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Rock River Valley Section  
Established 1947

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## RRVS Calendar

**October RRVS Section Meeting** ..... **October 25**  
 "Residential Solar Power in Illinois", Rock Valley College, Rockford, IL

**November RRVS Joint Section-NIU Student Branch Meeting** ..... **November 15**  
 "Electromagnetic Compatibility of Wireless Devices" by Harry Skinner of Intel, Rm. 354, Engineering Building, Northern Illinois University, 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

#### Inside This Issue

- October RRVS Section Meeting Notice ..... 1
- May Election Results for 2008 RRVS Officers and Chapter Chairs ..... 2
- September RRVS Meeting/Tour Recap ..... 2
- 2007 RRVS Officer Contact Information ..... 3
- RRVS Calendar ..... 4