

April 2018

Rock River Valley Section

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Event

Sense

The **I**nstitute of **E**lectrical and **E**lectronic **E**ngineers, Inc.

IEEE RRV Section, Electromagnetic Compatibility Chapter Meeting
SERVING IEEE MEMBERS OF NORTH CENTRAL ILLINOIS AND SOUTH CENTRAL WISCONSIN

WHEN Thursday, April 26, 2018

WHERE

Online Webcast
&
Rock Valley College
Woodward Technology Center
Room: WTC1322
3301 North Mulford Road
Rockford, IL 61114

AGENDA

6:00 PM Networking
6:30 PM Dinner
7:15 PM Presentation

This meeting will be presented via live online webcast. The dial in link will be provided in an email after registration.

Dinner will be served at Rock Valley College prior to connecting to the webcast.



Electrical Resonances in Physical Structures (A New Approach to Solving EMC Emissions and Immunity Problems)

Doug Smith

Many system design problems result from electrical resonances in the physical structures of the system, such as PCB construction and mounting, heat sink construction and mounting, chassis construction, unintended resonances of system antennas, and system cables both internal and external. If these problems are thought of in terms of resonances (LC and transmission lines), the problems are often more easily found and solved. Techniques for finding, characterizing, determining if a specific resonance is a problem or is harmless, and fixing those resonances that are causing problems are presented. The presentation is practical (as opposed to theoretical). Results are presented from various types of systems.

Doug Smith received a B.E.E.E. degree from Vanderbilt University in 1969 and an M.S.E.E. degree from the California Institute of Technology in 1970. In 1970, he joined AT&T Bell Laboratories as a Member of Technical Staff. He retired in 1996 as a Distinguished Member of Technical Staff. From February 1996 to April 2000 he was Manager of EMC Development and Test at Auspex Systems in Santa Clara, CA. Mr. Smith currently is an independent consultant specializing in high frequency measurements, circuit/system design and verification, switching power supply noise and specifications, EMC, and immunity to transient noise. He is a Senior Member of the IEEE and a former member of the IEEE EMC Society Board of Directors. He has been granted over 15 patents, several on measurement apparatus. He is author of the book High Frequency Measurements and Noise in Electronic Circuits. His very popular website, <http://emcesd.com> (www.dsmith.org), draws many thousands of visitors each month to see over 250 technical articles as well as other features.

MEAL INFORMATION

Dinner entrée will feature your choice of Vegetarian or Non-Vegetarian meals.

Members & Student Members: FREE,
Non-members: \$10,
Student non-members: \$5
Presentation only: FREE

Please register online at

<https://events.vtools.ieee.org/m/171656>

or by emailing Diane Sennebogen at diane.brock@utas.utc.com by Thursday, Apr 26 at 1 pm. Please include the following: name, phone number, email address, and IEEE member number. The meeting is open to the general public.

IEEE Rock River Valley Section

Joint meeting with NIU Student Branch, Young Professionals, Life Members and Women in Engineering Affinity Groups

WHEN Friday, April 20, 2018

WHERE

Los Rancheros Restaurant
2350 Sycamore Rd
DeKalb, IL 60115

[See Map](#)

AGENDA

6:00 PM Networking

6:30 PM Dinner



Networking Social with NIU Student Branch and HKN

Join us at the RRVs networking social with the NIU IEEE student branch and Eta Kappa Nu (HKN) members at Los Rancheros restaurant in DeKalb. This meeting will provide an opportunity for the students to network with professionals in the industry. Come out and see all the great events the IEEE student branch have been providing for students this year.

Please register online at

<https://events.vtools.ieee.org/m/171649>

IEEE Rock River Valley Section

A recording of the March section meeting is now available!

Data Science – An introduction to Methods and Applications

Vasu Raghavan
Deere & Co.

Thursday, March 29, 2018
IEEE RRVs Computer/Controls Chapter Meeting

[Play Recording](#) (1hr 18min)



IEEE Rock River Valley Section 2018 Calendar of Events

January 22: IEEE Chicago/Rockford Consultants' Network Meeting

January 25: RRVs Section Meeting

February 22: RRVs Section Meeting, Engineer's Week

February 24: [Discover Engineering at Discovery Center Museum](#)

March 29: RRVs Section Meeting

April 20 NIU Student Branch Networking Social at Northern Illinois University

April 26: RRVs Section Meeting,

May 24: RRVs Section Meeting

June 12: EMC Seminar.

June 28: RRVs Section Meeting, Annual Picnic and Officer Elections at Hamilton Sundstrand Park

August 30: RRVs Section Meeting

September 27: RRVs Section Meeting

October 5: IEEE Day Banquet

October 25: RRVs Section Meeting

November 15: RRVs Section Meeting at NIU

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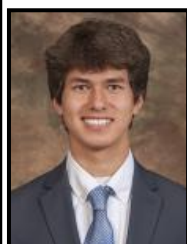


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RRVS Calendar

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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

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

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