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February 2000

Rock River Valley Section  
[www.ieee.org/regional/section/rock\\_river/](http://www.ieee.org/regional/section/rock_river/)

Event

Sense

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The Institute of Electrical and Electronic Engineers, Inc.

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PELS & IAS & RRV Section Meeting

# Electromagnetic Compatibility Directive

## When

February 24, 2000

## Where

Rock Valley College, Technology Center, Room 117. I90 to Riverside Blvd., exit and go west to Mulford Rd. Go south to first light, turn east into RVC. Follow road to left to last building.

## Agenda

6:00 PM Social & Tours  
6:30 PM Dinner  
7:30 PM Program

## Program

1996 saw the enforcement of the Electromagnetic Compatibility (EMC) Directive in Europe. After January 1st, all electrical and electronic products are required to meet a minimum standard of Electromagnetic (EM) emissions and immunity. The USA is not following suit. However, with the trend towards global markets, even products made in the USA are beginning to display the 'CE' mark showing that they comply.

The EMC Directive requires that any electrical device be in harmony with the EM environment where it will be used. This means that while in use it will not inter-

fere with the operation of another device, nor will it unintentionally be affected by the operation of another device. Additional requirements ensure that it remains relatively immune to the EM effects of power disturbances, lightning and Electrostatic Discharges (ESD).

The EMC Directive, now in its fifth year of enforcement, has recently been evaluated under the SLIM initiative to ensure it is working. New requirements under the scope of the EMC Directive are continually taking place, the most significant being the power quality requirement. This requirement limits the harmonic distortion induced back to the source of power by any device consuming more than 75 watts (50 watts shortly).

The presentation will address each of the above aspects, reflecting the status as of February 1st 2000.

## Speaker

The presenter is Derek Walton, a 20 year veteran in the EMC field. He is a NARTE Certified EMC engineer, owner of an EMC de-

sign and test company, and an EMC Assessor for the American Association for Laboratory Accreditation (A2LA). He has held EMC positions at British Aerospace, Sundstrand, Honeywell and Invensys, and EMC consulted for companies such as Sun Microsystems, Westell, Contemporary Controls, Rodix, Arachnid and Barber-Colman.

## Door Prizes

Sponsored by RRVS

## Meal

Dinner will be buffet style (with a min. of 15) and will consist of chicken, veggies, salad, dessert. Please make your reservations by calling **Jennifer at 815-753-9974 by Monday, February 21, (please include your e-mail address)**. The cost of the **dinner** is \$5 for IEEE **members** and \$14 for **non-members**. Unemployed members may call one of the officers for special arrangements.

## 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.

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## Jan RRVS Mtg Recap

Steve Fleeman and Tom Lombardo gave a very interesting presentation on Distance Learning at Rock Valley College. Use of the web for taking classes has many advantages. Classes can be structured around your schedule. Additional course content depth can easily be probed via course web page hyperlinks to supplementary information. Courses will likely be only slightly more expensive due to additional time demands placed upon the instructor answering individual emails and the like. Distance Learning is the wave of the future.

## 2 RRVS Members Elevated To Fellow

Biswa N. Datta of Northern Illinois University DeKalb, IL, was elevated to IEEE Fellow status for contributions to the interdisciplinary research blending linear algebra with control and systems theory.

Past RRVS section chair Caio Ferreira, CDF Engineering, Huntington Beach, CA, was elevated to IEEE Fellow status for contributions to the development of switched reluctance motors and generators applied to advanced electric aircraft.

We congratulate both men.

## IEEE Third Millennium Awards Given To 2 RRVS Members

As part of its celebration of the Third Millennium, the IEEE will award 3,000 IEEE Millennium Medals and certificates to individuals who have been selected by IEEE Societies, Sections and Major Boards for outstanding contributions in their respective areas of activity. The Rock River Valley Section has received two awards. The recipients of these medals are:

Robert Parro

Lawrence Wachowiak

We applaud their past contributions to the section and are grateful for their continuing efforts. The Third Millennium Awards will be conferred at the February 24, section meeting at RVC. Please join us in showing appreciation to members who have volunteered untold hours of service.

## Regional Conference

This is an announcement for the First IEEE Electro/Information Technology Conference to be held at the Chicago Marriott O'Hare, June 8-11, 2000. For more information please visit the conference website:

[www.ewh.ieee.org/reg/4/eit2000.htm](http://www.ewh.ieee.org/reg/4/eit2000.htm)

## IEEE ONLINE COURSES

The IEEE together with Stevens Institute of Technology will offer IEEE members graduate credit and a graduate certificate in Wireless Communications after successful completion of four online courses: Wireless Systems Overview, Physical Design of Wireless Communication Systems, and High-Level Design of Wireless Communication Systems. Classes begin this month and run through May.

For more information, contact Alan Trembly, IEEE Educational Activities, at [a.trembly@ieee.org](mailto:a.trembly@ieee.org) or call 1 732 562 5488.

## Submissions to *Event Sense*

Send articles and job ads to the *Event Sense* editor, Bob Parro, via e-mail (preferred), or fax. Job ads will run for two consecutive months. Contact the *Event Sense* editor if the ad needs to run longer. Please make submissions by the twenty-fifth of the month. All submissions are subject to editing for style, clarity, and space considerations.

e-mail: [b.parro@ieee.org](mailto:b.parro@ieee.org)  
fax: (815) 425-6919

*The Rock River Valley Section would like to give recognition to the following area company and university for supporting Section Officers:*

*Hamilton Sundstrand • Northern Illinois University*

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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*



Rock River Valley Section  
Established 1947

**Electronic IEEE Membership Application**

An electronic online application is available at:

[www.ieee.org/join.html](http://www.ieee.org/join.html)

## Calendar

- February Section Meeting** ..... **Feb 24**  
Electromagnetic Compatibility Directive—Derek Walton
- March Section Meeting** ..... **Mar 30**  
Motorola Plant Tour—Harvard, IL
- April Section Meeting** ..... **Apr 27**  
Plant Tour to either Chrysler Auto Assembly Plant in Belvidere or GM Truck and Bus Assembly Plant in Janesville
- May Section Meeting** ..... **May 25**  
Section Elections and Picnic—Hamilton Sundstrand Park



Joint Computer/  
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### Time-Sensitive Material

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