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September 2003

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 Chapter Meeting

## Applications of Active Noise Control

**When** September 25, 2003

**Where** Rock Valley College, Technology Center, Room 117. I-90 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 Networking  
6:30 PM Dinner  
7:30 PM Presentation

**Program** Acoustic noise problems become more and more evident as increased numbers of large industrial equipment are in use. Active noise control (ANC) is achieved by introducing a canceling "antinoise" wave through an appropriate array of secondary sources. ANC is an effective way to attenuate noise that is very difficult and expensive to control using passive means. It has application to a wide variety of problems in manufacturing, industrial applications, and consumer products. This talk will briefly introduce the principle of ANC, and focus on many real-world applications to automotive,

appliances, transportation, communications, entertainment, and a new snore control.



**Speaker Sen M. Kuo** is currently a Professor and Chair at the Department of Electrical Engineering, Northern Illinois University, DeKalb, IL. In 1993, he was with Texas Instruments, Houston, TX. He is the leading author of several books: "Active Noise Control Systems" (Wiley, 1996), "Real-time Digital Signal Processing" (Wiley 2001), "Digital Signal Processors" (Prentice-Hall 2004) and over 150 technical papers. He has been awarded seven US patents. He received the IEEE first-place transactions paper

award in 1993, and a faculty-of-year award in 2001. His research focuses on active noise and vibration control, adaptive echo and noise cancellation, digital audio applications, and digital communications.

### Meal/Reservations

There will be a chicken and vegetarian selection. Please reserve your space and/or dinner selection by **calling Ginger at 815-394-5696 or sending an email (ginger.spinasant@hs.utc.com) by Tuesday, Sep 23, at noon.** Please include your name, phone number, email address, IEEE member number and meat or vegetarian selection. The cost of the dinner is **\$5 for members, \$13 for non-members, and \$2 for students.**

### 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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**May Meeting Recap**

Elections for RRVS Officer positions for 2004 were held at the May meeting. The following section members were elected into the indicated positions.

<b>Chair</b>	<b>Jitendra Solanki</b>
<b>Vice Chair</b>	<b>Alkesh Patel</b>
<b>Treasurer</b>	<b>Larry Wachowiak</b>
<b>Secretary</b>	<b>Mark Eldredge</b>
<b>Comp/CS</b>	<b>Nolan Wanner</b>
<b>PELS</b>	<b>Neal Clements</b>
<b>IAS</b>	<b>Vietson Nguyen</b>



In addition, the annual RRVS section picnic was held at Hamilton Sundstrand Park. See pictures on this page.



**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: (443) 339-2606

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### Northern Illinois University Student Branch Officers



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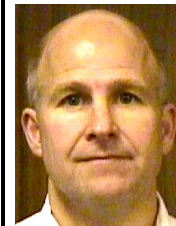


**Anish Matthew**  
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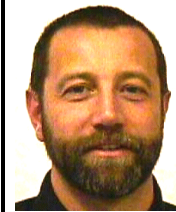


**Mohammed Irfan**  
Treasurer

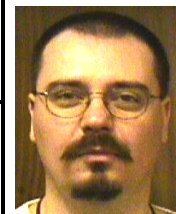
*Messages for student officers can be left at the NIU Dept of  
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**The Rock River Valley Section gratefully acknowledges the following companies and university for supporting Section Officers:**

**Hamilton Sundstrand • Northern Illinois University • BP Technologies**



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**Calendar**

- September Section Meeting** ..... **September 25**  
Applications of Noise Cancellation at Rock Valley College
- October Section Meeting** ..... **October 23**  
TBD at Rock Valley College
- November Section Meeting** ..... **November 20**  
Annual Student Branch meeting at the NIU Engineering building in DeKalb



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