



Southern Minnesota Section Newsletter

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March-April 2001

Coulee Region Engineering Society Scholarship Dinner

Tom Downs, Superintendent, La Crosse Schools

Technology in Education

*Thursday, April 5, 7:00 pm
Seven Bridges Restaurant
910 2nd Ave. North, Onalaska Wisconsin*

*Social Period 5:45 to 6:30 pm
Dinner 6:30 to 7:30 pm
Program 7:30 to 8:30 pm*

Dinner reservations are required (cost is \$20 per person)

Spouses & teenagers interested in engineering are welcome.

The Coulee Region Engineering Society Scholarship Committee has selected two young men for this year's award. We will honor the two scholarship recipients at our dinner.

Tom Downs, our featured speaker, will talk about the importance of fostering an understanding of technology in our young people, and will discuss how schools are adapting to the changing needs of our society. Mr. Downs will also talk about how technology is being used in our schools to enhance the education process.

Reservations, including a list of all participants and their meal choices, must be made by noon on Monday, March 26th, by contacting Dave Foye, Paul Ulland or Warren Schaefer. Payment will be collected from each participant the night of the dinner.

Select one of the following for each person when making your reservations: 10-oz Prime Rib, Chicken Marsala over Linguine, or Grilled Atlantic Salmon. All dinners include coffee, tea or soda, side dish, salad bar, bread and dessert. Pasta dish does not include side dish.

Excess funds from the dinner expenses will be added to the Scholarship Endowment Fund. Additional contributions to the scholarship fund are also welcome.

IEEE Section Meeting

W. Scott Bennett

The Basic Physics of Electromagnetics without Abstract Mathematics

*Thursday, March 29, 7:00 pm
Mayo Medical Sciences Building
(321 3rd Avenue SW, Rochester)*

☞ No pizza this time, sorry ☜

From the basic causes of electric and magnetic fields—stationary, moving, and accelerating electric charge—a basic point source of electromagnetic fields is found. Time-domain descriptions of each of the point source's component fields are obtained using the basic physical laws of Coulomb, Biot-Savart and Poynting, with high-school level mathematics. The descriptions obtained clearly relate each component field to its precise physical cause or causes. To further evaluate this newly found point source, it and the descriptions of its fields are compared to the current element—or Hertzian dipole—and typical descriptions are given for its fields. Last, it is shown how an understanding of this point source can be put to use to analyze the causes of electromagnetic fields, and either to enhance or minimize them.

Scott Bennett was a radar repairman in the USAF from 1948 to 1952. He worked as an electronics technician and EE student from 1952 to 1967, earning bachelor's, master's and doctoral degrees in Electrical Engineering at Syracuse University. He was an assistant professor of Electrical Engineering at Virginia Polytechnic Institute from 1967 to 1970 and a staff engineer at Burroughs from 1970 to 1974. From 1974 until his retirement in 1990 he was a member of the technical staff at Hewlett-Packard in Loveland and Fort Collins, Colorado. Since "retiring" he has been doing his best to make electromagnetics more understandable for everyone, including himself.

IEEE Coulee Subsection Meeting

April Horne, IBM
Project Management

Tuesday, April 24, 7:00 pm
Trane Technology Center, classroom 1A/1B
2213 South 20th Street, La Crosse, Wisconsin

- ☞ Pizza & socializing at 6:30 pm ☞*
- ☞ Reservations required (see below) ☞*

Contact Paul Ulland (p.ulland@ieee.org, 608 787-3563) by Monday, April 23rd if you wish to attend this meeting, so that a security badge can be prepared for you.

April Horne will define project management and explore the trends that are leading organizations to emphasize the

adoption of common project management methodologies, tools, training and certification programs. We'll also discuss the interest among professionals in obtaining certification, and describe how you can proceed with your own program to become a licensed Project Management Professional.

April Horne is the 2001 Enterprise Server Development Platform Manager at IBM Rochester. She earned an engineering degree at the University of Illinois, and an MBA at the University of Minnesota. She received her PMP license in 1999.

A project manager for most of her 18 years with IBM, she has worked with teams from engineering, programming, marketing, service and manufacturing.



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