
February 1998

Rock River Valley Section

www.ieee.org/regional/section/rock_river/

Event



Sense

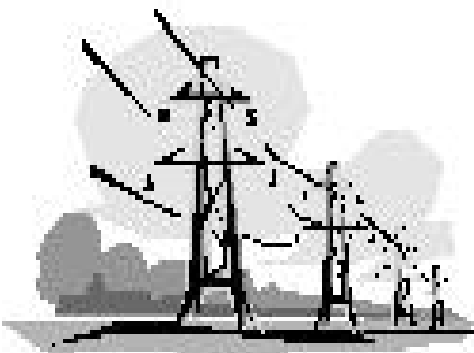
The Institute of Electrical and Electronic Engineers, Inc.

Joint IEEE/ASME RRV Sections Meeting

Can Solar Energy Be Competitive In A Deregulated Energy Market

When February 25, 1998

Note this is a Wednesday.



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 Social Time
6:30 PM Dinner
7:30 PM Program

Program In Recognition of the 1998 Engineering Week, ASME Distinguished Lecturers Program speaker Dr. William A. Beckman from the University of Wisconsin at Madison will give a presentation entitled; 'Can Solar Energy be Competitive in a Deregulated Energy Market?' in a joint meet-

ing of the Rock River Valley Sections of the IEEE and ASME.

The sun is regarded as the ultimate clean and renewable source of energy. So, why hasn't solar energy played a more significant role in replacing our more traditional, non-renewable energy sources such as coal and natural gas? Dr. Beckman will discuss the basic technology for transforming solar energy into useful forms. The technology of heating and cooling with solar energy is conceptually simple and real breakthroughs are not expected. On the other hand, electricity production from solar energy is a high technology endeavor. The promising technologies are either direct conversion with photovoltaic devices, or solar-thermal with heat operated power plants.

Speaker Dr. Beckman has co-authored three books and 125 research papers in the field of energy. He received his PhD from the University of Michigan. He is a Senior Fulbright Scholar and has received the American Solar Energy Society's Charles

G. Abbot Award, ASME's Solar Energy Division Centennial Medal and John Yellott Award. Dr. Beckman is an ASME Fellow and served as President of the International Solar Energy Society from 1985-87. He is a registered professional engineer in the State of Wisconsin.

Door Prizes Sponsored by RRVs and Best Buy

Meal Dinner will be buffet style (with a min. of 15) and will consist of sweet and sour chicken and baked cod. Please make your **dinner reservations** by calling **Gloria at 815-226-5247 by Tuesday, February 25, (please include your e-mail address in the information you provide Gloria - thanks)**. The cost of the **dinner** is **\$6** for **IEEE members** and **\$15** 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. Spouses and guests are welcome. However, please call to enable us to make proper arrangements.

ENGINEERS URGED TO DEVELOP NON-TRADITIONAL SKILLS IN PREMIERE ISSUE OF TODAY'S ENGINEER

Writing in the debut issue of TODAY'S ENGINEER magazine, Phillips Petroleum Chairman and CEO Wayne Allen issued a clarion call to engineers to meet levels of "competency and fluency in areas once considered 'alien territory.'"

In a special column celebrating National Engineers Week, Allen, the Week's 1998 Honorary Chairman, stated, "These alien regions I refer to include such diverse fields as communications, business and engineering ethics, organizational skills, financial analysis, personal skills, writing and speaking abilities, and computer proficiency."

He wrote that engineers "must become better skilled at combining the best traits of the dreamer, the truth-seeker, the diplomat, the educator, the inventor, the environmentalist, the manufacturer, the entertainer, the consumer, the philosopher, and the concerned-about-the-bottom-line executive."

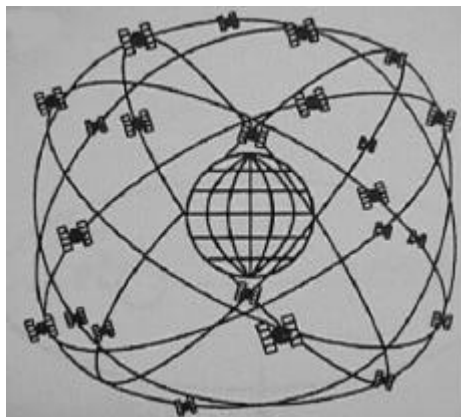
Each quarterly issue of TODAY'S ENGINEER will include up to six feature articles tied to the development of successful engineering attributes such as understanding of engineering science fundamentals and the context in which engineering is practiced; ability to think critically, creatively, independently and cooperatively; strong interpersonal and communications skills; and high ethical standards.

TODAY'S ENGINEER is published by IEEE-USA, which promotes the career and public-policy interests of U.S. members of The Institute of Electrical and Electronics Engineers Inc., the world's largest technical-professional society. For more information on TODAY'S ENGINEER, call 202-785-0017, ext. 313; send e-mail to ieeusa-magazine@ieee.org; or visit the magazine's web site at URL www.todaysengineer.org. To subscribe, call 1-800-678-4333 and ask for product no. PB-331. Annual subscriptions are \$18.95 for individuals (\$12.95 for IEEE members), and \$6.95 each for group subscriptions of 100 or more.

January Meeting Recap



Daryl McCall, Global Navigation Satellite System Technical Director for the Navigation Systems Engineering Department at Rockwell Collins' Commercial Air Transport Division in Cedar Rapids gave a talk rich with information consisting of an overview of the Global Positioning System, a primer on navigation concepts including effects of the ionosphere and troposphere, and finishing with various augmentation concepts to the present system. The figure below reflects the constellation of 24 satellites in orbit providing the GPS capability.



We are indebted to Daryl not

only for the quality and content of his presentation but for driving 8 hours to present this very interesting topic. Thanks again Daryl.

Rockford/Chicago IEEE Consultants Network

Meetings take place the last Monday of odd months at the Palatine public library from 7:30-9pm. The next two meetings are:

Mon March 30, 1998
Mon May 18, 1998

Palatine Public Library
700 North Court
Palatine, IL
(847) 358-1216

For more information please call Harvey Brodsky at (847) 222-1747.

March Meeting Preview

The speaker for this meeting will be Dr. Fred Lee, renowned in the field of Power Electronics. Dr. Lee is in the process of defining the specific topic on which he will speak.

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
fax: (815) 394-2497



RRVS Executive Committee

(l-r) **standing:** Larry Wachowiak, Treasurer; Hassan Mansir, IAS Chapter Chair; Don Zinger, NIU Student Branch Counselor; Matt Zimmer, Secretary and IAS Chapter Vice Chair; Roger Caruana, Education and Technical Activities Chair; **seated:** Caio Ferreira, Past Section Chair and current IAS Chapters' Department Chair, Bob Parro, Section Chair; Bill Barber, Section Vice Chair and Membership Chair; Jim Buerosse, PELS Chapter Chair; Paul Peterson, Joint Computer/Control Systems Chapter Chair and Awards Chair

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

Sundstrand Corporation • 3C Computer Systems • William Barber & Associates • Northern Illinois University

Rock River Valley Section of the IEEE 1997-1998

[WWW: www.ieee.org/regional/section/rock_river/]

Elected Executive Committee

Chair	Bob Parro	b.parro@ieee.org	(815) 394-2947
Vice-Chair	Bill Barber	b.barber@ieee.org	(815) 235-4110
Secretary	Matt Zimmer	m.zimmer@ieee.org	(815) 394-3456
Treasurer	Larry Wachowiak	l.wachowiak@ieee.org	(815) 394-5676

Appointed Executive Committee Chairs

IAS Chapter Chair	Hasan Mansir	h.manisr@ieee.org	(815) 226-6875
IAS Chptr. Vice Chair	Matt Zimmer	m.zimmer@ieee.org	(815) 394-3456
Comp/CS Chapter Chair	Paul Peterson	paul.peterson@ieee.org	(815) 226-2584
PELS Chapter Chair	Jim Buerosse	j.buerosse@ieee.org	(815) 226-6078
Educational Activities	Roger Caruana	r.caruana@ieee.org	(815) 227-1850
Technical Activities	Roger Caruana	r.caruana@ieee.org	(815) 227-1850
Membership	Bill Barber	b.barber@ieee.org	(815) 235-4110
Awards	Paul Peterson	paul.peterson@ieee.org	(815) 226-2584
Publicity, Newsletter Editor	Bob Parro	b.parro@ieee.org	(815) 394-2947
Nominations	Roger Caruana	r.caruana@ieee.org	(815) 227-1850

Northern Illinois University - Student Branch Officers

St Br Counselor	Prof. Don Zinger	d.zinger@ieee.org	(815) 753-0540
St Br Chair	Jamie Phillips		
St Br Vice-Chair	Michelle Marotta		
St Br Secretary	Rob Reeder		
St Br Treasurer	Ryan McMillin		

*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

New - Electronic IEEE Membership Application

An instant hit with new member applicants in 1997 was the electronic on-line application introduced in mid-November. In about eight weeks, 1052 member applications have been received electronically at IEEE. To access the application, visit www.ieee.org/join.html.

Calendar

- February Section Meeting** **Wednesday, Feb 25**
Joint RRVS IEEE/ASME - Can Solar Energy be Competitive in a Deregulated Energy Market?
- March Section Meeting** **Monday, Mar 30**
Dr. Fred Lee on Power Electronics
- April Section Meeting/Tour** **Apr 30**
UPS Tour, Rockford Airport
- May Section Elections/Picnic** **May 28**
Sundstrand Park



Joint Computer/Control
Systems Society Chapter
Established 1995



Industry Applications
Society Chapter
Established 1992



Power
Electronics
Society
Chapter
Established 1996

Non-profit Org.
U.S. Postage
PAID
Rockford, IL
Permit No.496

Time-Sensitive Material

Inside This Issue

- February Section Meeting Notice 1
- Engineers Urged To Develop Non-Traditional Skills 2
- January Meeting Recap 2
- Rockford/Chicago IEEE Consultants Network 2
- March Meeting Preview 2
- RRVS Website & Officer Contact Information 3
- Electronic IEEE Membership Application 4
- Calendar 4