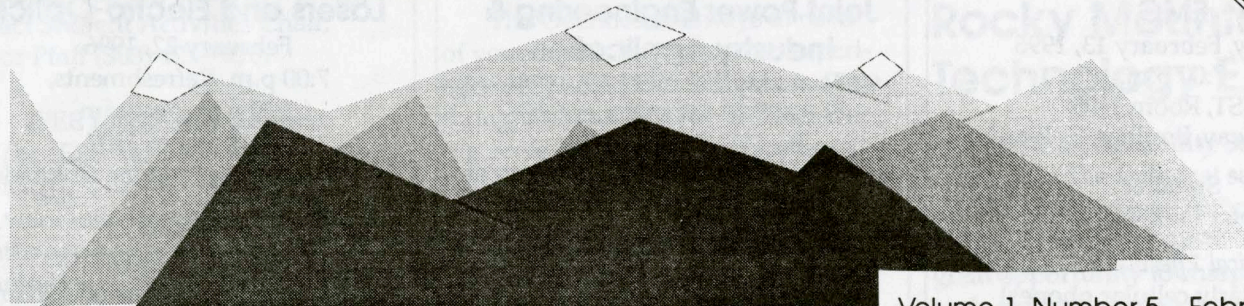


RockIEEE Overlook



Volume 1, Number 5 February 1996

Chairman's Message

by David Richmond

Electrical engineering is an extremely fast moving field. Developments which are "state of the art" today become obsolete in an astonishingly short time. One result of this state of affairs is that electrical engineers, even more than most engineers, are preoccupied with the future. Electrical engineers have played a major role in shaping the society in which we live, and are likely to play an even greater role in the society of tomorrow. IEEE can help you keep current.

IEEE's meager beginning occurred in 1884 with the formation of AIEE. The first paper published, "Notes on Phenomena in Incandescent Lamps" by J. Houston was a discussion of the Edison Effect, which became the foundation of electronics. One of the important activities of the AIEE was the development of standards for the engineering profession and the electrical industry. The Institute's earliest efforts were directed toward standardizing units and definitions relating to basic electrical science.

Today, as it was in the beginning, technical activities are fundamental to the IEEE and is one of the prime reasons members cite for joining and remaining active in the organization. Currently, IEEE is organized technically into 37 Societies, through which most of the technical activities are conducted. Almost all work is performed by volunteers. I urge you to get active in local IEEE affairs. Being

an IEEE volunteer is a great way to meet and make contacts with people in our profession.

National Engineers Week

Engineers across the country are preparing for National Engineers Week, February 19-24, 1996. Through a variety of activities during the week, engineers aim to increase awareness and appreciation of the engineering profession. This year's theme is "Engineers Make It Work". National Engineers Week takes an "electronic" step forward by being available on the World Wide Web.

The National Engineers Week home page has been developed as part of the Society of Manufacturing Engineers (SME) home page. SME is the 1996 lead society for National Engineers Week. By going to SME's home page, <http://www.sme.org> you can access information regarding National Engineers Week.

Colorado Engineers Dinner

Colorado Engineering Council will sponsor the 16th annual Colorado Engineers Dinner on Friday evening, February 23, 1996 at the Radisson Hotel Denver-South as a culmination of National Engineers week. Come and experience a nationally recognized presentation entitled "Wings and Things" by Mr. Ralph Juarros, Principle of Washington Irving Middle School in Colorado Springs. The Irving Math Engineering Science Achievement (MESA) group is a perfect example of

early education which encourages young students to further their education in engineering/high technology.

Contact Johan Morris (303) 344-6144 for information on tickets for the event.

Colorado Science and Engineering Fair (CSEF)

The Colorado Science and Engineering Fair is held in Fort Collins each year in April. Students from throughout the state participate after having shown a project in a regional fair. IEEE sponsors one of the prizes awarded at the event.

Members and associates of IEEE, by virtue of their practice in the fields of science and engineering, are invited to participate as Regular Awards Judges for CSEF. To get information on the judging schedule and on application to serve as a judge, contact Gina Holland of the Colorado Engineering Council, (303) 329-1720.

Student Paper Contest

The Denver Section of IEEE is sponsoring a student paper contest in February of this year. Winners in the paper contest win a cash prize and are eligible to present their paper at a contest held during the Region 5 meeting in April. If you would like

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Meetings

EMC

Tuesday, February 13, 1996
7:00 p.m.
NIST, Room 1105
325 Broadway, Boulder, Colorado

Speaker

Prof. Frank Barnes

"The Biomedical Effects of RF Energy"
(particularly cellular phones)

Prior to the meeting there will be an informal dinner at Pablo's at 5:30 p.m. Pablo's is located at 2865 Baseline Rd. and features South-western style food.

No RSVP is required and each person is responsible for their own meal.

Notes: Anyone interested in helping with the 1998 IEEE International EMC Symposium in Denver should contact George Trejo, Bill Ritenour, or Barry Wallen.

Reliability

Thursday, February 15, 1996
4:30 - 6:00 p.m.
Storage Technology
Building 3

Excellence Conference Room
Sign in at the visitor's center and walk across the street to building 3.

Round Table
"Reliability Predictions"
(emphasis on worst case analysis.)

Come share your experience and concerns. Call Mr. Joe Diele at 673-5963 with any questions.

Joint Power Engineering & Industry Application

Thursday, February 15, 1996
Social 5:30-6:30 Dinner 6:30
Brooklyn's Sports Bar
2644 W. Colfax Ave. (1 block south of McNichols Arena and Mile High)
Dinner Fee: \$12.00 (Students free)

Speaker

Mr. Randy Rowan
VP Marketing of G&W Electric Co.
"Applications for Medium Voltage Subcycle Transfer Switch"

Please call Barbara at Peterson Company (303) 388-6322 for dinner reservations by February 12.

AP-S/MTT-S/GRS-S

Thursday, February 15, 1996
4:00 p.m.
NIST, Room 1105
325 Broadway, Boulder, Colorado

Speaker

Prof. Frank Barnes
University of Colorado - Boulder
Dept. of Electrical Engineering
"Cellular Phones: Health Hazard?"

For more information contact Richard G. Geyer, (303) 497-5852.

March Meeting

Thursday, March 21, 1996
4:00 p.m. NIST, Room 4020
325 Broadway, Boulder, Colorado

Speaker

Dr. Huey-Daw Wu
University of Colorado - Boulder
Dept. of Electrical Engineering
"Thin-Film Ferroelectric Coplanar Waveguide Phase Shifters Operating at Room Temperature"

Lasers and Electro-Optics

February 22, 1996
7:00 p.m. Refreshments,
7:30 p.m. program
NIST, Room 1107
325 Broadway, Boulder, Colorado

Speaker

Nilroy Dutta
IEEE / LEOS Distinguished Lecturer
"Optical and Interconnection Technology for Large Computing and Switching Systems"

Call Kevin Keilbach at 673-1349 before meetings to confirm times and location.

The Lasers and Electro-Optics Society of the IEEE has planned our speakers through may of 1996. Our meetings will all be held at the time and location listed above.

On March 21, 1996, Paul Hale: *"High Speed Detectors"*; April 18, 1996, Chris Monroe: *"Quantum Computation with Laser-Cooled Atoms"* and on May 23 1996, Steven Block (OSA Eastman Speaker): *"Using Optical Tweezers to study Biological Motors"*. Please call Kevin Keilbach at 673-1349 to confirm all meetings.

Chairman's Message continued from page 1

to present a paper, or act as a judge, contact Student Activities Chair, Trevor Pfaff (303) 421-7910.

IEEE Job Listing Service

The IEEE has a Job Listing Service (JLS) on the internet. The service went into operation about 18 months ago and is available by autoresponse at the following e-mail address:

info.ieccusa.jobs.r05@ieee.org

You may also place your resume' in a national database that can be used by employers to fill job openings. The service is free to IEEE members and will be available to employers at a fee through an agreement with Resume'-Link. Members can submit their resumes along with an information form to Resume'-Link through World Wide Web at <http://www.resume-link.com> or by calling (614) 529-0429.

Overlook contest

The Overlook is always in need of your input. If you have an experience you would like to share, or some thoughts about IEEE or the Engineering profession, we would be pleased to publish them.

To encourage submission of articles, The Overlook will award prizes to authors with the best two articles submitted prior to February 16. The prizes are two tickets, to each of the winners, for the Colorado Engineers' Dinner on February 23. The articles should be 250 to 500 words in length and will be published as space permits. Submit your to Victor Cheung, c/o Merrick & Co. 2450 S. Peoria St., Aurora 80014. Fax: (303) 751-2581.

IEEE Technical Seminars at the Rocky Mountain Technology EXPO

The IEEE Reliability Society is putting on five technical seminars at the Rocky Mountain Technology EXPO on April 3-4, 1996. This is a great opportunity to sharpen your tools for "developing the right product and developing your product right." All of the instructors are world class and the the half day seminars are offered at the very nominal cost of \$50 for IEEE members.

Watch for more information in next months newsletter, or contact EXPO direct at:

Phone: (303) 799-0650

Fax: (303) 799-0678

Fax request: (303) 727-4768

email: showmgr@rmtechexpo.com

Web: <http://www.rmtechexpo.com>

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Courses for Spring Term 1996

NCES 8050 Professional Engineer's Examination Refresher Course for Electrical Engineering
Saturdays, March 2 - April 6, 8 a.m. to noon. \$295

NCES 8611 Fundamentals of Power Quality Engineering
Monday - Wednesday, January 29-31, 8 a.m. to 5 p.m. \$695

NCES 8612 Fundamentals of Electric Power Engineering
Monday - Wednesday, April 22-24, 8 a.m. to 5 p.m. \$695

NCES 8614 Materials Engineering Principles Applied to Communications and Computer Products
Thursday & Friday, March 21-22, 8 a.m. to 5 p.m. \$495

The Institute of Electrical and Electronics Engineers - Denver Section

6:30 PM

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971-9620

- Society Chapters - Fred Jones, (303) 988-2951
- Awards - Darrell Sabatka, (303) 329-1547
- Student Fund - Edward Pitchkolan, (303) 966-3707
- Student Branch Activities - Trevor Pfaff, (303) 421-7910
- Consulting Network - Tim Davis, (303) 466-1117, timdavis@tdcon.com
- Professional Activities (PACE) - open
- Black Hills Subsection - Michael Pendo, (605) 394-5278
- Centennial Subsection - Richard Sandige (307) 766-6181
- Nominations - Bob Struthers, (303) 843-2235

- Professional/Industry Liaison - open
- Membership - open
- Pre-College Student Activities - Jeff Wilson, (303) 388-6322
- Educational Activities -
- Conference Activities - Jim Schroeder, (303) 871-3519, Fax: (303) 871-4450, jschroed@du.edu
- RockIEEE Overlook Editor - Victor Cheung, (303) 751-0741, Fax: (303) 751-2581, Publisher - Anita Wanberg, Phone/Fax: (303) 220-8042

Chapter Officers

- Magnetics - Jim Cates, (303) 673-4126, Fax: (303) 673-6540
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- Engineering in Medicine & Biology - Norbert Kaula, (303) 270-8973, norbert.kaula@uchsc.edu

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- Electromagnetic Compatibility - George Trejo, (303) 350-4113
- Joint Antenna & Propagation/Microwave Theory & Technology/Geoscience & Remote Sensing - Richard Geyer, (303) 497-5852
- Aerospace and Electronic Systems - John Tsucalas, (303) 798-5769 **
- **Anyone interested in revitalizing the Aerospace Chapter please call John Tsucalas at (303) 798-5769.**

Please notify IEEE headquarters of any changes to your address and/or phone number by calling 1-800-678-IEEE (4333). We can not change this information in the Denver Area.

The Institute of Electrical and Electronics Engineers



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