

# RockIEEE Overlook

Newsletter of



**The Institute of  
Electrical and Electronics Engineers  
Denver Section**

May 1992

## IEEE Denver Section Meeting

### When

Wednesday, May 13, 1992

6:00 Social (cash bar) 7:00 Dinner 7:30 Program

### Where

Cherry Creek Inn  
600 S. Colorado Blvd., Denver

### *"Colorado Rockies Baseball Club"*

Come join us for a presentation by a representative of the Colorado Rockies who will discuss the past, present, and future of this dynamic organization.

**Dinner Cost - Members and Guests - \$15, Students 1/2 price.**

Call Anita Wanberg, 220-8042 for reservations by noon on Monday, May 11, 1992.  
Please let Anita know if you will be there for the meal or just for the meeting.

**THANK-YOU to John Tierney at Public Service Company of Colorado for his effort in working with the Denver Section membership database.**

# Society Chapter Meetings and Information

## EMC

### Electromagnetic Compatibility Society

Monday, May 11, 1992

7:00 p.m.

NIST, Electromagnetic Fields Division, Room 1107  
325 Broadway, Boulder, CO 80303

#### Speaker

Galen Koepke, NIST Electromagnetic Fields Division  
*"Comparison of Emission Test Facilities Using  
a Control Standard Radiator"*

Bob Goldblum, R&B Enterprises  
*"The Latest Update on the MIL-STD-461/2 Revisions"*

Open parking is available in visitor parking. Reservations are not required. Please call: Eric Evans, 761-9447, Bill Bryant, 977-6578, or Mark Lapchak, 773-4626, for more information.

Note: Election of the new Rocky Mountain Chapter EMC Society officers will be held at the meeting.

## EMBS

### Engineering in Medicine and Biology

Wednesday, May 20, 1992

7:30 p.m.

University Hospital, Glaser Auditorium, First Floor  
9th Ave. and Colorado Blvd., Denver, Colorado

#### Speaker

Michael Ryan  
Department of Regulatory Affairs  
Teletronics Pacing Systems

*"FDA Requirements for Product Approval"*

An introduction to the basic FDA requirements for medical devices.

Parking is available in the lot to the east of the hospital (\$1.50 with validation at the Information Desk). Free parking may be available on the side streets near the hospital (two hour limit).

Reservations are recommended  
Please call Harry Valenta at 690-9688.

## Joint MTT/AP/GRS

### Microwave Theory and Techniques, Antennas and Propagation, Geoscience and Remote Sensing

Thursday, May 21, 1992

4:00 - 5:00 p.m.

National Institute of Standards and Technology  
325 Broadway, Room 1103  
Boulder, CO

#### Speaker

Dr. Lindon L. Lewis  
Ball Aerospace Systems Group  
Broomfield, Colorado

*"Developments in High Temperature Superconducting  
(HTS) Antennas"*

Ball Aerospace has been involved in HTS research since 1987 when the first such compound, YPCO was discovered. Recently, a 64 element superconducting antenna array at 35 GHz has been demonstrated with new generation HTS materials.

Please call Ron Vidano at Ball Aerospace, 460-2001  
if you have any questions.

## Magnetics Society

Wednesday, May 27, 1992

5:30 - 6:30 p.m.

Kaizen Conference Room, Building 6  
Storage Tek  
Louisville, CO

#### Speaker

Dr. Ron Goldfarb  
National Institute of Standards of Technology  
Boulder, Colorado

*"Magnetic Measurements of Superconductors"*

Attendees must collect their badges  
at the visitor's center.

For more information, contact Subrata Dey, 673-6494.

# Chairman's Message

by Paul Meisel

This year we were represented at the Region 5 meeting in San Antonio by our Secretary, Tom Gibbs. During this meeting we learned the problems affecting other sections and hopefully obtained some solutions to problems in our section. It is understandable that most major problems are the same because we do not live in an isolated world and we are a volunteer organization with other demands on our time.

I found it interesting the other day when I received an announcement of a technical seminar sponsored by a continuing education branch of a major university. It looked interesting enough for me to read further to determine the location and the price, \$1,035. What a bargain which IEEE gives its members -- usually "free" local meetings and reasonably priced specialty society technical meetings. Why is it so difficult then to get better attendance at chapter meetings? Exhaustion after a difficult day at work, travel distances from home, family obligations and many more thoughts have been expressed.

On the other hand technical obsolescence is real and unless you are working for an advanced degree or doing post doctoral work, if you are not reading technical material or attending technical sessions, you can lose the technical edge.

Look at the programs offered in the RockIEEE Overlook in this issue and make a resolve to attend just one meeting -- it's a start. Attend a meeting in other than your normal work area and you'll think there is a foreign language presentation. I challenge you to continue your technical update.

Plans for programs are already being made for the fall. If you have a need for a program on a specific topic, call one of the chapter chairpersons and make your request.

P.S. If you or your company need to reach approximately 4500 IEEE Denver Section members, please contact Dave Richmond, (303) 843-2465 for advertising details.

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## Joint PES/IAS

### Power Engineering/Industry Applications

Thursday, May 21, 1992

Brooklyn's Saloon & Restaurant, 572-3999  
2644 W. Colfax, Denver (under the viaduct).

6:00 p.m. Social, 7:00 p.m. Dinner (optional @ \$10)  
Student IEEE Members Dinner Free  
8:00 p.m. Meeting

#### Speaker

Jay S. Gould  
Vice Chairman, Unique Mobility

*"High Power Density Drive Systems for Vehicles"*

Mr. Gould will discuss some of the electric drive applications that Unique Mobility has developed for military and personal vehicles. The company is currently commercializing patented brushless dc motor technology for transportation, industrial, and aerospace markets. An example is a system developed for a major European automaker which allows acceleration from 0-75 mph without a gear change.

Please contact Barbara at Peterson Company, 388-6322, by Monday, May 18, 1992.

## Schedule of Conferences and Meetings

May 11-13, 1992	Denver	Vehicular Technology Conf. (VTC '92)	Jim Schroeder	(303) 871-3519
May 11-14, 1992	Denver	Power System Relaying (PES)	John Appleyard	(608) 364-5622
June 25-26, 1992	Denver	Software Reliability	Rick Karcich	(303) 673-6223
Aug. 13 - 16, 1992	Denver	BB & Elect. Comm. Conf. (IBECC)	Barry Marshall	(303) 426-1847
Sept. 30 - Oct. 2, 1992	Estes Park	Hardware Software Codesign	Rick Karcich	(303) 673-6223
October 21-24, 1992	Denver	Telelearning Conference '92	PBS/ALS	(800) 228-4630
Sept./Oct., 1994	Denver	IAS Annual Meeting	Paul Meisel	(303) 761-6960
September 10-14, 1995	Denver	Petroleum & Chemical (PCIC)	John Nelson	(303) 431-7895
July 27-August 2, 1996	Denver	PES Summer Meeting	Fred Jones	(303) 431-7895
1997	Denver	PES Joint Power Generation	Gary Petersen	(303) 329-1506
May, 1997	Denver	MTT	Hussain Haddad	(303) 460-2114
			John Dunn	(303) 449-1055
			Claude Weil	(303) 497-5305
			Mark Lapchak	(303) 773-4626
August 17-19, 1999	Denver	EMC		

## Proposed Conferences and Meetings

International Conference on Harmonics in Power Systems (ICHPS) 1996  
ESMO 1996  
Sections Congress 1996  
ITC 2000  
ICC 1995-2000

## Overlook Advertising

### Ad Size

### Rate

	<u>One Time</u>	<u>Multiple</u>
Business Card	\$ 25.00/mo.	\$ 20.00/mo.
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Insert 8-1/2 x 11	\$ 200.00/mo.	

Business card ads must be actual business cards. All other ads should be provided in camera-ready format or additional set-up charges may apply. Inserts must be provided (quantity approx. 4225) and delivered to the printer.

### Deadlines for 1992-1993

September 1992 Newsletter - August 3, 1992

October 1992 Newsletter - September 1, 1992

November 1992 Newsletter - October 2, 1992

January 1993 Newsletter - December 1, 1992

February 1993 Newsletter - January 1, 1993

March 1993 Newsletter - February 1, 1993

April 1993 Newsletter - March 1, 1993

May 1993 Newsletter - April 2, 1993

Please make checks payable to Denver Section IEEE. Send business card or ad copy and check to: **Anita Wanberg, AMW, P.O. Box 4056, Englewood CO 80155-4056, (303) 220-8042.**

## Professional Activities

by Darrell Sabatka

Retirement with a secure pension and money in the bank is a financial goal for all our members. Chances are you have moved around, or will be moving. IEEE-USA has been working for many years toward portable pensions. Write three letters - one to each Senator and one to your Congressman within the next two months. Ask them to co-sponsor, support, and vote for H.R. 2390, the Pension and Portability and Improvement Act of 1991.

### Pension Portability and Improvement Act of 1991

This legislation requires a minimum contribution of six percent of employees' salaries to be made to the pension plan by employers. We've worked hard to get this bill together and to get it introduced. We need members' support to get it passed.

A hand-written letter is fine -- it represents sincere concern. Even if you have a portable pension plan, send the letters anyway, so that other engineers and other U.S. workers can be helped. A lot is at stake, and you can help make some important changes take place.

Tell your Senators and Representative that you are not being merely self-serving. Implementing H.R. 2390 will significantly enhance national savings and will help improve U.S. competitiveness in global markets. Pension funds provide much of the investment capital in this country, and industrial expan-

sion requires capital. Passage of this legislation could be the best 87-cent investment you've ever made in your own and your nation's future.

If you need assistance in identifying your Members of Congress, consult the reference pages of your telephone book or your local public library. If you want some tips on communicating with Congress or need more information on pension issues and legislation, contact the IEEE-USA office at 1828 L St., N.W., Washington, DC 20036-5104; (202) 785-0017 (office); (202) 785-0835 (fax).

Address letters to the U.S. Senate, Washington, DC 20510, or to the U.S. House of Representatives, Washington, DC 20515.

For people that commute to work or if you are driving to interviews, I have available a series of cassette tapes on subjects ranging from Self Esteem to Public Speaking. Call for a full list and details.

Our Employment Assistance Workshop is scheduled for the Fall of 1992 and will be joint with Professional Engineers of Colorado and the Colorado Springs Subsection. If you are out of a job and need help now, call me. I have some generic materials and some resource phone numbers.

<p><b>DENNIS A. EDWARDSON</b> Director, T&amp;D Services <b>Black &amp; Veatch</b> Engineers-Architects 1400 South Potomac Street, Suite 200 Aurora, Colorado 80012 (303) 671-4200</p>	<p><b>T3 Systems</b> Thad Smith      Robert Mashlan We develop software and firmware for realtime measurement and control applications, targeting embedded microprocessors and PCs. * Data Collection &amp; Communication * Motion Control, Custom Interfaces * User Presentation in DOS &amp; MS Windows Free estimates.      (303) 449-3322</p>	<p>STEPHEN C. SPENCER, P.E. Director, Electric Systems Engineering Direct (303) 299-5327 Main (303) 299-5200 Fax (303) 297-2811 Denver National Bank Building, Suite 1900 1125 Seventeenth Street Denver, Colorado 80202-2615 USA <b>R.W. BECK</b> AND ASSOCIATES</p>
<p><b>Rapley Engineering Services, Inc</b> Engineering Design (303) 792-2211 Electrical Engineering and Design Process Control Design Instrumentation - Automation Plant Control System Upgrade/Retrofit Computer Applications/Software Develop. Commissioning/Calibration/Start-up CAD/Design/Drafting</p>	<p>Project Economic Analysis      Reliability/Availability Engineering Economics      Quality Assurance <b>Ray M. Wainwright, P.E.</b> Engineering Consultant 3715 South Niagara Way Denver, Colorado 80237      (303) 758-2985</p>	<p><b>M E T R U M</b> INFORMATION STORAGE Testing Services Littleton, CO FCC/VDE/CISPR EMI Vibration ESD UL/CSA Safety Temperature Humidity Altitude Mark Lapchak      Carlos Ortiz (303) 773-4626      (303) 773-4566</p>

# The Institute of Electrical and Electronics Engineers - Denver Section

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## The Month at a Glance

**May 11, 1992**

EMC Meeting

**May 11-13**

Vehicular technology Conf.

**May 11-14**

Power Systems Relaying Conf.

**May 13, 1992**

Section Meeting

**May 20, 1992**

MTT/AP/GRS Meeting

PES/IAS Meeting

**May 27, 1992**

Magnetics Society

04/01/92 DNVR  
DAVID B RICHMOND  
2921 SO SIDNEY COURT  
DENVER CO 80231

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