

# RockIEEE Overlook

Newsletter of



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

May 1993

## IEEE Denver Section Meeting and Special Award Presentation

IEEE Denver Section invites all members, students and guests to attend the Section Meeting and presentation of the Innovation Award to John Tary by the Region 5 Director.

**WHEN:**

Wednesday, May 12, 1993

6:00 p.m. Cash Bar

6:30 p.m. Dinner

7:30 p.m. Award and Program

**WHERE:**

Ramada Hotel

8773 Yates Drive, Westminster (Sheridan & Highway 36)

**SPEAKER:**

Arvin H. Michel

Public Service Company of Colorado

*"Prudent Response to Low Frequency Magnetic Fields - A Colorado Perspective"*

Mr Michel chairs the Public Service Company EMF Committee  
and Serves on the EPRI EMF Task Force.

**DINNER COST: \$15.00**

**RESERVATIONS:**

Please call Marilyn Peterson at 329-1615 by May 10th for dinner reservations.

# Society Chapter Meetings and Information

## Magnetics Society

Thursday, May 13, 1993

5:30 - 6:30 p.m.

Central Support Conference Room A & B, Building 8  
Storage Technology Corporation  
2270 S. 88th St.  
Louisville, Colorado

### Speaker

Prof. Shun-Ichi Iwasaki  
IEEE Distinguished Lecturer 1993  
Tohoku Institute of Technology

### "Evolution and Future of Perpendicular Magnetic Recording"

Please collect access badges at StorageTek Visitor Center, then  
proceed to Building 6 where there is ample parking.

For further information, call Dr. Richard Dee at  
(303) 673-3976.

## Joint VTS/COMSOC Vehicular Technology/ Communications Societies

Thursday, May 13, 1993

6:00 p.m. Dinner

Fiore's Restaurant, 8236 S. Holly

7:30 p.m. Tour

Public Service Company's South Network Facility  
1/2 mile South of County Line Rd. on Colorado Blvd.

### Speaker

George Stoll  
Manager Information Network Services Division  
Public Service Company of Colorado

Mr. Stoll will present an overview of Public Service  
Company of Colorado's Corporate Telecommunication  
Network. Included in this presentation will be a tour of  
the South Network Facility. This facility houses: satellite,  
fiber optic, microwave, radio and telephone switching  
equipment.

For more information call Dave Illiff at 347-1942.

## IEEE Joint PES/IAS

### Power Engineering/Industry Applications Societies

Thursday, May 20, 1993

6:00 p.m. Dinner (\$10.00, Student members free) 7:00 p.m. Brewery and Cogeneration Tours

### Tour of Coors Brewery

Visitor entrance via 12th & Ford Gate, Golden, Colorado

Coors owns and operates a large cogeneration process which includes five boilers, three generators and over 10,000 tons of refrigeration. In 1992, Coors burned coal to produce 95% of their steam energy to generate approximately 50% of their electrical demand, in Golden, where over 20 million barrels of Coors products were brewed and packaged. The Golden Brewery is the largest single brewing site in the United States. Coors also supplies steam to the Colorado School of Mines.

Officers will also be elected.

Please contact Barbara at Peterson Company, 388-6322, by Monday, May 17, 1993.

## Net -- Works

In an attempt to assist our unemployed and under employed members, we will be accepting free of charge, thirty (30) word resumes from these individuals. A code number will be assigned to each 30 word resume. If you or your company are looking for someone permanently or temporarily, please note the code number. Call Marilyn at 629-1615 and give your name and telephone number. The person whose resume you have selected will be contacted and will respond to your request.

The Denver Section of IEEE will bear no responsibility for accuracy of the resumes or liabilities which may occur between the parties using these services. Resumes should be sent to Mr. John Tary, 7739 Spring Drive, Boulder, CO 80303.

Knowledge of power and signal electronics, controls and instrumentation. Familiar with PLC's, motors, converters, inverters, SPC. Managerial experience. Prefer small manufacturing with supervision. Has done marketing/sales. Reasonable salary. **M01M01.**

BSEE, 5 years experience, power systems controls and relaying, Nuclear power plant, transmission substations from 500 kV to 69 kV. Paralegal certificate, 1 year litigation experience. Vietnam Era Veteran. Computers since 1975. **M26L01.**

<p><b>Serving Colorado and The World</b> — Since 1885 —</p> <ul style="list-style-type: none"> <li>• Power</li> <li>• Mining &amp; Metals</li> <li>• Petroleum &amp; Petrochemicals</li> <li>• Electronics</li> <li>• Aerospace &amp; Defense</li> <li>• Biotechnology</li> <li>• Pharmaceuticals</li> <li>• Hazardous Waste Management</li> </ul> <p><b>United Engineers &amp; Constructors</b> A Raytheon Company Western Operations</p> <p>P.O. Box 5888 Denver, CO 80217 (303) 843-2000</p>	<p><b>T3 Systems</b></p> <p>Thad Smith      Robert Mashlan</p> <p>We develop software and firmware for realtime measurement and control applications, targeting embedded microprocessors and PCs.</p> <ul style="list-style-type: none"> <li>* Data Collection &amp; Communication</li> <li>* Motion Control, Custom Interfaces</li> <li>* User Presentation in DOS &amp; MS Windows</li> </ul> <p>Free estimates.      (303) 449-3322</p>	<p>(303) 758-8400      FAX: (303) 758-8762</p> <p><b>BRUCE E. HAYDEN, P.C.</b> ATTORNEY AT LAW</p> <p>FIELDS, LEWIS, PITTENGER &amp; ROST 1100 WRITER COMMONS BUILDING 1720 SOUTH BELLAIRE STREET DENVER, COLORADO 80222</p> <p>PATENTS COPYRIGHTS COMPUTER LAW TRADE SECRETS</p>
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## The UNIVERSITY OF COLORADO AT DENVER College of Engineering and Applied Science

is offering the following upcoming continuing engineering education programs:

<b>Mgmt. of Engineering Technology</b>	<b>April 2</b> (1 day/8 hrs)	<b>\$245</b>
<b>Optical Fiber Communications</b>	<b>April 23</b> (1 day/8 hrs)	<b>\$245</b>
<b>Neural Networks</b>	<b>May 13-14</b> (2 days/16 hrs)	<b>\$345</b>
<b>Maintenance Management</b>	<b>May 25-26</b> (2 days/16 hrs)	<b>\$345</b>
<b>Basic 3-D Computer Aided Design</b>	<b>May 26-28</b> (3 days/20 hrs)	<b>\$495</b>

Call Arne Arnesen, CU-Denver Continuing Engineering Education, (303) 556-4907, for detailed program brochures and registration information on any of the above short courses.

# STC for PCS

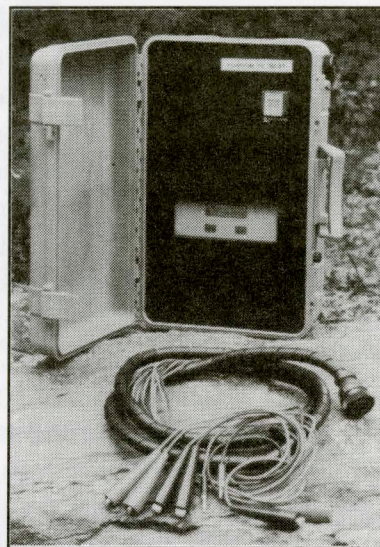
Are you a member of the Professional Communication Society, or interested in technical writing and editing? There is currently no local chapter of this Society in the Denver region, but you are welcome to come to the meetings of the Society for Technical Communication (STC).

We meet once a month on the third Thursday, and meetings are free. You can hear a recorded message at 238-5352 for information on the next meeting.

For more information about STC, contact Miki Magyar, Chapter President, at 762-1640.

## Rustrak Ranger II Power Logger for AC Recording No programming needed!

This paperless recorder with preprogrammed setups provides accurate recording of power profiling, peak demand, energy surveys, power factor correction studies and residential complaint monitoring. Simple setup records RMS values of voltage, current, Watts, VARS, phase angle, apparent power, power factor, etc. with accuracy that exceeds metering standards. Then transfer and analyze data on PC using free Pronto software.



**Call TODAY For More Information!**  
**303-289-4743 or 800-525-0811 outside CO**

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## Schedule of Conferences and Meetings

June 6-9, 1993	Denver	EOS/ESD Assoc. Stds. Development	Renae Fierros	(303) 220-0600
October 20-22, 1993	Denver	Industry 2000 - EAB	Paul Mesel	(303) 665-2698
November 3-6, 1993	Denver	ISSRE (Int. Symp. Software Rel. Eng.)	Rick Karcich	(303) 673-6223
Sept./Oct., 1994	Denver	IAS Annual Meeting	Paul Meisel	(303) 665-2698
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
August 17-19, 1999	Denver	EMC	Mark Lapchak	(303) 773-4626

## Proposed Conferences and Meetings

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

## JOIN THE DENVER IEEE SECTION

**SATURDAY, JUNE 12, 1993**

**AT DENVER UNIVERSITY--BOETTCHER AUDITORIUM**

2050 E. ILIFF AVENUE

FROM 8:30AM TO 3:30PM

FOR

## JOB SEARCH 1993 EMPLOYMENT SEMINAR

PRESENTED BY: ALAN SHOWALTER

Region 4 Coordinator--Employment Assistance Committee

Lunch, Breaks & Workshop Materials Included in Registration Fee

**COST: MEMBERS-----\$25.00**

**NON-MEMBERS---\$35.00**

**STUDENTS-----\$10.00**

Payment in Advance. Registration deadline is May 24, 1993. Send Payment and Reservations to John Tary, 7739 Spring Drive, Boulder, CO 80303. For additional information call Marilyn at 329-1615.

Sponsored by the Denver Section of IEEE with the cooperation of the University of Denver Engineering Department.

# IEEE Denver Section Joins Denver Chamber of Commerce

The IEEE Denver Section has joined the Denver Chamber of Commerce which means all of our members also belong. Meetings can be attended by making individual reservations and stating your Denver Section of IEEE affiliation. Member cards can be obtained by contacting John Tary at 499-2164.

## Sample Program

8:00 - 11:30 a.m.

*"Networking: Making Business Contacts Work for You"*

### Speakers

Michael Smith, SBC & Associates, Inc. Robert Weiss, Alyn-Weiss & Associates  
For more information, call Catherine Pyle at 620-8050. To make a reservation, call 620-8043.

### What you'll get from this program:

- \* Learn the three kinds of contacts in your network and how to benefit from them.
- \* Techniques on identifying those individuals with whom you are most likely to make contacts and exchange important information, access and referrals.
- \* Learn to control the number of relationships that you need to service in order to sustain your network.
- \* Tips on quickly assessing a new contact's value and discerning which are of real value.

## Overlook Advertising

<u>Ad Size</u>	<u>Rate</u>	
	<u>One Time</u>	<u>Multiple</u>
Business Card	\$ 25.00/mo.	\$ 20.00/mo.
1/8 page	\$ 60.00/mo.	\$ 50.00/mo.
1/4 page	\$ 150.00/mo.	\$ 130.00/mo.
1/2 page	\$ 250.00/mo.	\$ 225.00/mo.
Full Page	\$ 400.00/mo.	\$ 360.00/mo.
Insert 8-1/2 x 11	\$ 200.00/mo.	

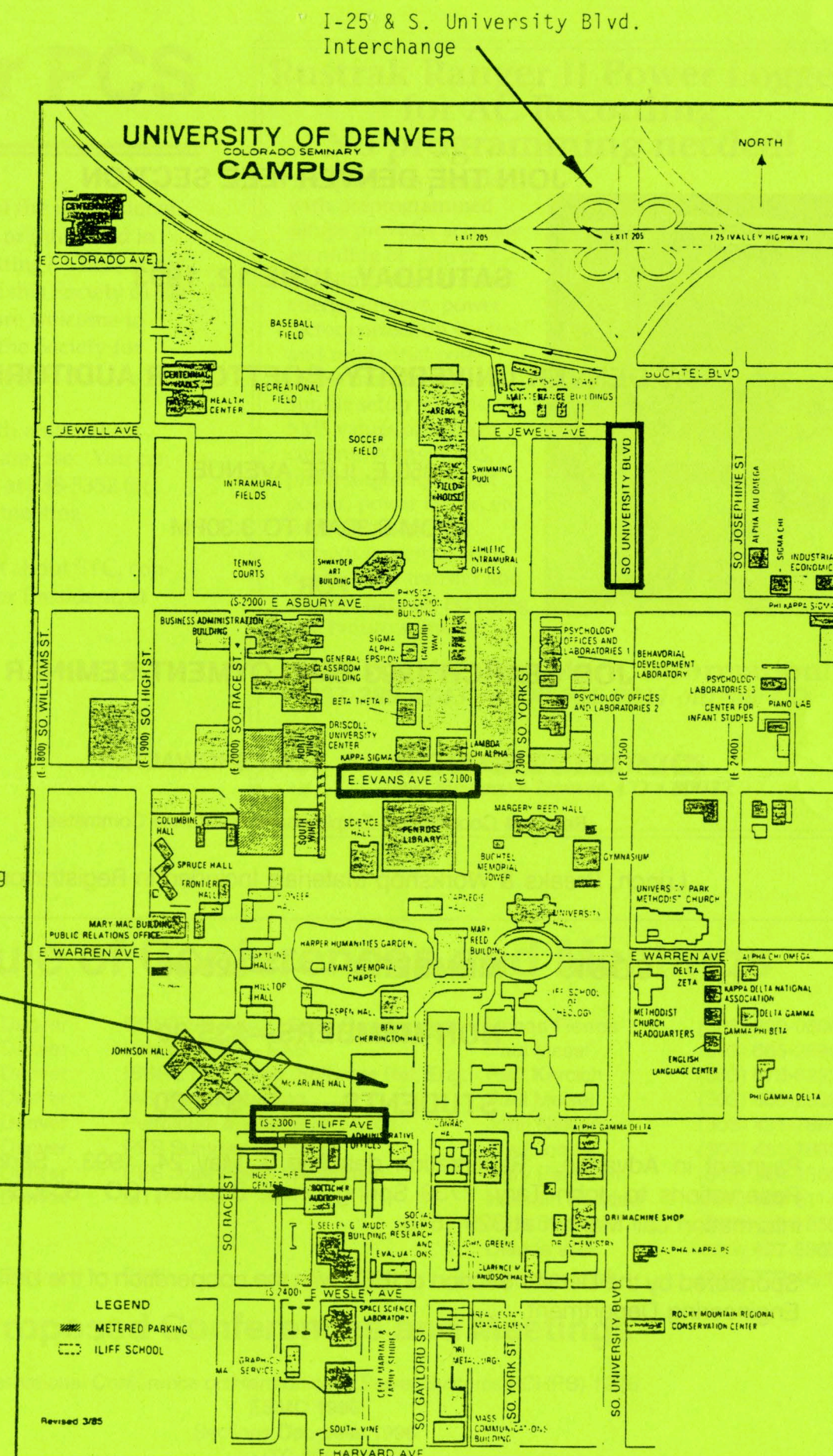
Business card ads must be actual business cards. All other ads should be provided in camera-ready format or additional set-up charges may apply. Inserts must be provided (quantity 4750 - 5000) and delivered to the printer.

### Deadlines for 1993-1994

September 1993 Newsletter - August 2, 1993  
November 1993 Newsletter - October 1, 1993  
February 1994 Newsletter - December 30, 1993  
April 1994 Newsletter - March 1, 1994

October 1993 Newsletter - September 1, 1993  
January 1994 Newsletter - November 29, 1993  
March 1994 Newsletter - February 1, 1994  
May 1994 Newsletter - April 1, 1994

Please make checks payable to Denver Section IEEE. Send business card or ad copy and check to: IEEE Denver Section, 1101 E. 1st Ave., Suite 1000, Denver, CO 80202. (303) 222-8042.



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# The Institute of Electrical and Electronics Engineers - Denver Section

## Executive Board

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**Tom Gibbs**  
11143 W. 17th Ave.  
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Lakewood CO 80215  
238-1574

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Public Service of CO  
5525 E. 38th Ave.  
Denver CO 80207  
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(303) 556-4007

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Storage Technology  
2270 S. 88th St.  
MD810  
Louisville CO 80028  
673-6494

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7377 Arbutus Ct.  
Arvada CO 80005  
422-9374

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Educational Activities -  
Professional Activities - **H. Paul Meisel**, 665-2698

## Executive Committee (Includes Executive Board)

### Standing Committee Chairmen

Society Chapters - **Bob Struthers**, United Engineers, 843-2235  
Conferences - **John Tary**, Tary Associates, 499-2164  
Awards - **Gary Peterson**, Public Service Co., 571-3626  
Student Fund - **Edward Pitchkolan**, 740-2632  
Professional/Industrial Liaison - **Tony Thomas**, GE Micro Switch Control Inc., 792-1673

Nominations - **H. Paul Meisel**, 665-2698  
Membership - **David B. Richmond**, United Engineers, 843-2465  
Pre-College Student Activities - **Rory Laiho**, IBM, 924-3879  
Student Branch Activities - **Dan Greko**

## Executive Committee (Ex-Officio Members)

### Subsection Chairmen

Black Hills - **R.D. McNeil**, Electrical Engineering Dept., South Dakota School of Mines & Technology, Rapid City, SD, 57701, (605) 394-2452  
Centennial - **Sadrul Ula**, Electrical Engineering Dept., University of Wyoming, Laramie WY 82071, (307) 766-6268

## Society Chapter Chairmen

Electromagnetic Compatibility - **R.E. (Ev) Evans**, R.A. Mayes Co., 761-9447  
Engineering in Medicine and Biology - **Jim Heller**, 790-9010  
Joint Antenna and Propagation/Microwave Theory & Techniques/Geoscience and Remote Sensing - **Zoya B. Popovic**, University of Colorado, 492-0373  
Joint Vehicular Technology/Communications - **Mark Shriver**, Forefront Engineering Corp., 730-6348

Joint Computer/Information Theory - **Bryce Chapman**, Storage Tek, 673-4762  
Laser and Electro Optics - **Alan Mickelson**, University of Colorado, 492-7539  
Joint Power Engineering/Industry Applications - **Kevin Wright**, NEI, 431-7895  
Magnetics - **Dr. Richard Dee**, Storage Tek, 673-3976  
Power Engineering - **Kenneth McBryde**, CO Ute Electric Assoc., 249-4501  
Reliability - **John Adams**, ValleyLab, 530-2300

45 chapters

Senior Past Chairman - **Gary Petersen**, Public Service Company of Colorado, 571-3626

RockIEEE Overlook Editor - **David B. Richmond**, United Engineers, 843-2465  
P.O. Box 5888, Denver, CO, 80217

Publication Coordinator - **Anita Wanberg**, AMW, Phone or Fax: 220-8042  
P.O. Box 4056, Englewood, CO, 80155-4056

## The Institute of Electrical and Electronics Engineers



Denver Section

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Englewood CO 80155-4056

Phone: 220-8042

Lucy  
5/31

E chairman

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## The Month at a Glance

**May 12, 1993**  
Denver Section Meeting

**May 13, 1993**  
Magnetics Society Meeting  
VTS/COMSOC Meeting

**May 20, 1993**  
PES/IAS Meeting

**June 6-9, 1993**  
EOS/ESD Assoc. Stds Develop.

03/09/93 DNVR  
DAVID B RICHMOND  
2921 SO SIDNEY COURT  
DENVER CO 80231

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