

RockIEEE Overlook

November 1993

Sitting in THE chair

Darrell Sabatka, Section Chairperson

The kids just started back to school and the holiday season is just around the corner. The local chapters have been busy arranging meetings for interested members and the executive board has been busy leading the Denver Section down tomorrow's road. Membership is still our major concern. IEEE needs to be of value to warrant our money and time. You now have your membership renewal for 1994. I sincerely hope you renew. The information in the renewal packet provides valuable reasons to maintain your membership. At the local level, the Section and Chapter, work hard to service your needs. We are always looking at ways to reduce administrative costs and increase service to the membership. Mike Meister, Member Services, has proposed a Section phone number and E-Mail alternatives to facilitate information exchange. Call Mike with your ideas.

Several weeks ago, the Ann Landers column in the Denver Post ran several letters on "Engineers different? Bet a bunch". My first reaction was one of anger. My second reaction was one of inaccurate public perception and image. Ann's letter should remind us of the stereotype given to all engineers. The role of engineering continues to be greatly misunderstood by those outside the profession. (Reread my February 1993 article—"The Qualities of an

Engineer.") We need to constantly polish our professional image and posture ourselves in the non-technical world. I have an excellent paper by Jim Watson of Watson Associates—call me for a copy.

Sidetones

Signals from/about the Membership

The University of Colorado College of Engineering and Applied science marked their 100th birthday on September 30th and October 1st. The very best from the IEEE Denver Section to CU • Can anyone top this? Dave Corbin, Telecommunications Engineer, can claim 5 generations have attended CU. • NIST is looking for partners for a cooperative research and development consortium to help test the Building Automation and Control Networks (BACnet) standard communication protocol. Contact Jan Kosko at (301) 975-2767. • It is always a pleasure to have lunch with old friends like Al Samson and Marshal Coon. Al still drives his 30 year old British Sunbeam which has been restored to "mint condition". Marshall has added excitement to his life having taken up scuba diving and soaring. • Offer the Denver Section's thank you to Bob Skelton (last address Richmond Washington) and Russ Johnson (Northglenn) for chairing the International Communications Conferences. • A special note: John Schafer, General Manager of the Hyatt

Regency Denver downtown has received the Sandy Gerety Humanitarian Award. John is a great person and very deserving of the honor. • The Editor appreciates Keith Henderson and others who have passed along comments on the new version of the RockIEEE Overlook. At 71 it is not easy to retrain and come up to speed in a hurry...So please give us time. • We welcome Tim Davis to our group. Tim will do the publishing and improve the style of the newsletter. Tim is also handling the local IEEE Consultant's Network. For information about the network call Timothy Davis Consulting at (303) 466-1117.

Know something interesting about your fellow members? Have they been honored or just done something good for their community? Give us a call here at the Overlook we would like to print it in Sidetones.

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Sign up that colleague next door! Help the Denver Section sign on 450 new IEEE members by January 1st.

Society Chapter Meetings and Information

Joint Antenna & Propagation/Microwave Theory & Techniques/Remote Sensing Chapter Meeting.

Date: Thursday, November 18th, 1993 - 4:00 pm.
Location: NIST, Room 1107, 325 Broadway, Boulder Colorado.
Speaker: Melinda Piket-May
"F.D. - T.D Modeling of Digital Signal Propagation in 3-D
Circuits with Passive and Active Loads"

Power Engineering Society Chapter Meeting

Date: Thursday, November 18th, 1993.
6:00 PM Social
6:30 PM Dinner (optional@\$10.00, Students Free)
7:00 PM Meeting
Location: Holiday Inn S.E., I-225 and Parker Road.
Speaker: Steve Dayney, Transmission Engineering, Public Service
Company of Colorado.
"Spliceless installation of 3000 ft. of 115kV cross linked
polyethylene cable"

Mr. Dayney will present a slide show and discussion of the 115kV
underground transmission project routed under the Fox Hollow golf
course in Lakewood, Colorado.

Reservations: Phone Barbara at Peterson Co., 388-6322
by Monday November 15th.

Laser and Electro Optics Society Chapter Meetings

Date: Thursday, November 11th, 1993
7:30 PM Room 1107
Location: NIST, 325 Broadway, Boulder Colorado
Speaker: Matt Young
Date: Thursday, December 16th, 1993
6:30 PM - Light hors d'oeuvres with wine and cheese
will be served.
Location: Call Bob Feuerstein at 492-7077 for location
Speaker: Professor Scott Hinton, McGill University
IEEE LEOS Distinguished Lecturer.

Joint Vehicular/Communication Chapter Meeting

Date: Thursday, November 11th, 1993.
6:00 PM Dinner(Optional)
@ The Armadillo Restaurant. 3161 Walnut,
Boulder Colorado. (East of the Mall.)
7:00 PM Presentation at U.S. West Adv. Tech.
Location: U.S. West Advanced Technology, 4001 Discovery Drive,
Boulder. (South on Foothills from Arapahoe)
Speaker: Ray Nettleton
"Personal Communication Systems (PCS)"

An informal, information lecture on PCS will be given by Mr. Net-
tleton. The presentation may be followed by a demonstration of
operational, personal communication systems.

Joint Denver & Pikes Peak Section Reliability Chapter Meeting - Christmas Social

Date: Saturday, December 4th, 1993
Doors to playhouse open at 6:00 PM
Location: Country Dinner Playhouse
6875 South Clinton, Denver Colorado
(Turn right/south onto Clinton, 1/4 mile east of I-25 on
Arapahoe. Clinton is first stop light.)
Attendance limited to 20 people.
Reservations: John Adams, 530-6503 or Sam Keene, 673-5963
Cost: Approximately \$20.00 per person

Magnetics Society Chapter Meeting

Date: Wednesday, November 17th, 1993
5:30 - 6:30 PM
Location: Storage Technology Corporation
Bldg. 8 Central Support Conference Room
2270 S. 88th Street, Louisville, Colorado
Speaker: Dr. James Cates, Staff Dvlpmt Engineer, STK
"Magnetostriiction and Structure Studies of Iron-Nitride Based
Films for Thin Film Recording Heads"
Please collect the access badge at the Visitor Center. If you have any
questions, please call Dr. Richard Dee at (303) 673-3976 or Ken
Franzel at (303) 673-3987.

The EVENT Horizon

November 1993						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2	3	4	5	6	7
		ISSRE'93				
8	9	10	11	12	13	14
			VTC/COM LEOS			
15	16	17	18	19	20	21
		MAGNETIC S	PES AP/MTT/GRS			

Greater Denver Chamber of Commerce Meetings

Nov 3 Nuggets Basketball Kickoff (11:30AM) June Schmidt, 620-8023
Nov 4 Women Business Owners (7:30AM) Catherine Pyle, 620-8050
Nov 11 Micro Business Marketing. Catherine Pyle, 620-8050
Nov 18 Business After Hours (5:00PM) June Schmidt, 620-8023
Nov 19 How to Start A Business (8:00AM) Beverly Hinkle, 620-8076
Nov 19 Seminars For Successful Growth: Interviewing and Hiring Skills.
Catherine Pyle, 620-8050
Dec 8 Good Morning Metro Denver! (7-9:00AM) Meaghan Walsh
Dec 9 Power Sales Breakfast Series. Catherine Pyle, 620-8050

13	14	15	16	17	18	19
			LEOS			
20	21	22	23	24	25	26
27	28	29	30	31		

Engineers Seeking Employment

Quality engineers available.

The following IEEE members are seeking employment. If you have a position open or know of one please contact Marilyn Peterson at (303) 329-1615. Please give your name, address, phone number and the special identification code to Marilyn. She will have the member contact you directly.

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

1992 BSEE Grad with strong technical and computer background seeks engineering employment. 6 years experience as field/bench technician and 5 years programming low and high level languages. (A2G01)

Innovative, experience, solution oriented, technically current individual. Experienced in processing control/monitory, process characterization/improvement, continuous improvement, PLC, motor controls. Event driven real time programming background-DOS, OS/2 RMX, UNIX and others. Manufacturing R&D in machinery controls instrumentation. (A7G02)

Recent MSEE, experience with PLC, instrumentation, controllers and power electronics. Developed 6B05 controller for small machine. Three years supervision experience with large manufacturer. Perform design or R&D position (A19W01)

Ph.D. Computer Science - 30 years experience (14 years aerospace). Designed, implemented, managed and taught commercial application, scientific system and operating system development from single embedded microprocessor to some of the largest distribution supercomputer systems (A22B01)

B.A. Mathematics, 20 years experience software development. Software management, project and program management. Strategic planning/process innovation. Perform SEI maturity assessments. State Government/Fortune 500 background. (A26B02)

BSEE, two years of 3480 tape controller programming, SCSI-2, diagnostics. Others: Motorola 6800, VM/CMS, REXX, 'C'. GPIB Bus. Also power systems and controls. (MA01Z01)

Human Factors. Experience: Product and system development, assurance and manufacturing. Telecommunications; Videotex, Laboratory and field usability testing. Occupational Ergonomic. Enjoy diverse teams; strong presenter. Creative and practical. Take multiple roles. MA plus. (A28K01)

Professional Engineer with BSEE and BSBA degrees. Experience Record: 9 years telecommunications, 7 years test, 3 years market-

ing, 1 year project engineering and a pro-active supervisor (JY24H01)

Masters level professional with 7 years Systems Engineering experience seeking opportunity in product development or test in Biomedical Electronics, Control Systems or Communication electronics. Willing to relocate. (Au03H02)

BSEE, problem solving and adaptable individual. Seeking opportunities in product development for instrumentation or communications. Strong customer support and technical writing background. (S04I01)

Software Development Manager knows 2167A, TQM tools, SEI and ISO9000. Managed development and system integration/test on variety of hardware, language and DBMS in engineering and scientific application, planning, problem solving. (S04L02)

December BSEE graduate with substation control and protection experience seeks entry level engineering employment. Extensive computer experience. Vice-Chairman IEEE student chapter. Passed EIT exam 4-93. (S28S01)

Over twenty years in communication applications engineering with extensive project experience in designing, purchasing, and installing Data, Voice, Telemetry, SCADA and Pictorial networks over radio, telephone, cable, fiber and TWPR, microwave and satellite communications with network switching and management facilities. (O01W02)

Engineer with over 10 plus years in computer hardware/software experience as well as instrumentation seeks employment with environmental company. Knowledge of computer PLC based monitoring systems and sensors. (O01S02)

BSEE, MSEE, MB. Software engineer with over 9 years experience in software development on various platform and s/w namely Oracle, UNIX and C. 11 years of experience included s/w engineer, systems analyst, business analyst, project leader and consultant. (O04B03)

Positions Available

Sales Engineer. Degree required, BSEE preferred, minimum 2 years sales experience. Excellent future management potential, great benefits, small company. Send resume to Peterson Company, 4949 Colorado Blvd., Denver, Colorado 80216. Attn.: Louie Beck.

ATTENTION!

Some things on fire in this column!

• Regulatory Professional. I am interested in forming a group devoted exclusively to regulatory issues. My hope is to develop a

forum that facilitates sharing of information concerning: trends in regulatory approvals, standard development and general regulatory issues. All concerned parties responsible for UL, CSA, TUV, FKA, or other regulatory approvals are invited to contact Andrew Doering c/o TU Product Service Inc., 5541 Central Avenue, Boulder, CO 80301. Telephone (303) 449-4165, Fax (303) 449-3004.

• Serious about speaking! Want to build it into a business. Speakers are in demand for associations, corporations, clubs, and other organizations. Joe and Judy Sabah want to help you market yourself and your speaking talent. Please give them a call at (303) 722-7200. The Denver Section will assist as necessary to gather the names of members who are interested and place an ad in various directories for speakers. Check it out. You may discover hidden opportunity.

Conferences

...of interest to our members

Nov 3-6 4th International Symposium on Software Reliability Engineering. Denver, Colorado. Yashwant K. Malaiya, General Chairman (303) 491-7031. Denise Hallman, Arrangement Chairman (303) 491-5792

Nov 3-5 5th Annual Total Quality Management (Conf. & Exhibit) Colorado Springs, Colorado. For additional information please call: Lori Mitchell, Conference Directory (719) 593-8777

Mar 16-18 INFOCOM. Denver, Colorado. Call Maclean Hunter 1994 Presentation, INC. (303) 696-6100

Apr 24-26 IEEE Rural Electric Power Conference. Colorado Springs, Colorado. For more information contact Don Werner (402) 636-2585.

Jun 20-23 The 6th Joint MMM-Intermag Conference. Albuquerque, New Mexico. Sponsor: IEEE Magnetics Society & American Institute of Physics. Contact: William C. Cain, Read-Rite Corp. (408) 956-3301

Jun 27/Jul 1 Conference on Precision Electromagnetic Measurements. Boulder, Colorado. Call for papers contact: Gwen E. Bennett (303) 497-3295. For more information contact: Fred McGehan (303) 497-3246

Oct 2-6 IEEE Industry Application Society Annual Meeting. Denver, Colorado. Chairman: Paul Meisel, MagneTek (303) 673-9930

Nov 27/Dec 1 GLOBECOM'94. San Francisco California. Call for papers contact: Dr. Dale Harris, Stanford University (425) 725-9868

Sep 10-14 IEEE Petroleum & Chemical Annual Meeting. Denver, Colorado. Chairman: John Nelson, Nelson Engineering (303) 431-7895.

Jul 27/Aug 2 IEEE Power Engineering Summer Meeting. Denver, Colorado. Chairmen: Gary Peterson, Public Service Company of Colorado (303) 329-1506

Did You Know...

Information on the benefits of your IEEE membership

• Unemployed engineers can obtain a free employment packet from the IEEE-United States Activities office, 1828 L Street, N.W. Suite 1202, Washington, DC 20036-5104. All you need to give them is your membership number.

This packet includes the 3rd edition of the Employment Guide for Engineers and Scientists, a pocket-sized job search record book, Guidelines to Professional Employment for Engineers and Scientists, Professional Practices for Engineers, Scientists and their Employers, and IEEE Members Professional Needs.

IEEE also helps students. They provide a Practical Guide for job search.

• The Denver Section will be obtaining a copy of a four hour videotape on "How to Get a Better Job Quicker". If you are interested in being informed when this videotape will be ready for showing, please contact Paul Meisel. His telephone number is listed on the back-page of this RockIEEE Overlook.

• The Denver Section is planning a Job Tutorial in March of 1994. The section held an extremely successful seminar in October, 1992. This seminar will have a different speaker with different material. The cost of the seminar will be for materials, breaks, and lunch. This seminar will be subsidized by the Denver Section and reservations must be made in advance. Watch for more information in the RockIEEE Overlook in the near future.

• Private Practitioners are not forgotten either. For members who are active in or are considering a career in consulting, IEEE-USA's Private Practitioners Task Force has developed some helpful materials and programs.

Consultants' Network (CN) has existed in some sections since 1984. CN's are autonomous with varied structures, goals, and purposes. The main similarity is that they provide self-employed engineers an opportunity for professional development.

CN's offer members opportunities to meet and discuss common interests and concerns. The networks also provide a way for consultants to become familiar with the skills needed to be successful in the business world. Topics covered at these meetings include marketing, taxes, contracts, insurance, and intellectual property law.

Networks often provide lists of members and their skill to local companies with consulting needs. CN's advertise in local newspapers and refer consultants to local companies which are looking for particular skills.

MANAGE YOUR CAREER AS YOU MANAGE YOUR COMPANY'S TECHNOLOGY

Today, leadership in managing technology means managing your career, as well. That requires up-to-date information and the highest quality in graduate education. You will find both in the University of Denver's Management of Technology (MoT) program at University College.

Our MoT master's degree program prepares technical and business professionals and managers for a more strategic role in managing innovation, as well as the development, implementation, and diffusion of product and process technology throughout their organizations.

Knowledge of this emerging discipline can also help companies acquire and maintain a greater competitive edge in today's global marketplace.

All MoT classes meet evenings to fit your schedule. Custom degree plans may include electives from such areas as telecommunications, global business, environmental management, and communication skills.

This winter, choose from such courses as Engineering Management; Technology, Ethics and Social Responsibility; and Linking R & D, Manufacturing and Marketing.

For a catalog and more information, call 871-3155, ext. 207, today.



UNIVERSITY of DENVER
University College

Chapters

TABLE 1. Denver Section Society Chapters

Chapter	Chair	Vice Chair	Secretary/ Treasurer
Electromagnetic Compatibility	R.E. (EV) Evans 761-9447	George Trejo 350-4113	Eric Evans 761-9447
Engineering in Medicine & Biology	Jim Heller 790-9010		
Joint Ant & Propagation/ Microwave Theory & Techniques/Geoscience & Remote Sensing	Richard Geyer 497-5852		
Joint Vehicular Technology/Communications	Mark Schriver 794-0838	Dave Illiff 347-1942	Lee Castellion 229-6540
Joint Computer & Information Theory	Bryce Chapman 673-4762	Shadad Bhatti 673-8915	
Laser & Electro Optics	Allan Mickelson 492-7539	Bob Feuerstein 492-7077	Kevin Keilbach
Joint Power Eng. & Industrial Appl.	Brian S. Moreau 671-4270	Phil Goldhamer 673-5342	Jim Houlihan 661-9373
Magnetics	Richard Dee 673-3976		Ken Franzel 673-3987
Power Eng. (W. Colo)	Kenneth McBryde 249-4501		
Joint Reliability (Denver -Pikes Peak Section)	Gene Bagenstos (719) 528-3715	Rick Follenwieder 673-4361	John Adams 630-6503

FICHTNER ENGINEERING, INC.
2801 Youngfield St.
Suite 121
Golden, CO 80401

Phone (303) 238-7548
Telefax (303) 238-7798

John J. Tary
Telecommunications

FICHTNER

Tektronix

Tektronix is sponsoring a two day seminar November 17th and 18th, 1993 in Denver, Colorado on Spectrum Analyzer principles and applications. Professor Morris Engleson, IEEE Fellow, NARTE Engineer and former Chief Engineer will deliver the presentation. This seminar is an opportunity to learn from THE expert in the field

For information and cost, please call Tektronix at 1-800-284-2127. SPACE IS LIMITED.

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WHAT WOULD YOU LIKE TO SEE THE DENVER SECTION DO TO HELP YOU THE IEEE MEMBER IN A PROFESSIONAL WAY? WE ARE OPEN TO HEARING YOUR SUGGESTIONS. LET YOUR VOICE BE HEARD!

- The Denver Section has a Silver membership with the Greater Denver Chamber of Commerce (GDCC). See the calendar for details on upcoming events GDCC is sponsoring. Contact John Tary (499-2164) for information about making reservations to attend a particular meeting.

Advertisements

Place your ad here - Support the IEEE Denver Section

Your business card or camera ready artwork can be placed here for exposure to nearly 5000 engineers, scientist and managers. Contact the RockIEEE Overlook Editor, John Tary for more information on rates and billing.

The Institute of Electrical and Electronics Engineers

Denver Section

Chairmen:

Darrell Sabatka
Public Service Co. of
colorado
5525 E. 38th Ave.,
Denver CO 80207
(303) 329-1547

Sr. Vice Chairmen:

Michael J. Foley
Forensic Engineer-
ing, Inc.
4530 South Decatur
Denver CO 80110
(303) 730-7707

Vice Chairmen:

Member Services
Michael Meister
NTIA/ITS.N4
325 Broadway
Boulder CO 80303
(303) 497-6571

Vice Chairmen:

Student Activities
Doyle Ellerbruch
Metro State College
P.O. Box 17362
Denver CO 80217
(303) 556-4007

Secretary:

Subrata Dey
Storage Technology
2270 S. 88th St.
Louisville CO 80028
(303) 673-6494

Treasurer:

Diana Lindstrom
7377 Arbutus Ct.
Arvada CO 80005
(303) 422-9374

Past Chairman - H. Paul Meisel 673-9930
Educational Activities - C. Ganesh (303) 273-3761

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Society Chapters Bob Struthers, United Engineers, (303) 843-2235
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Black Hill Subsection

Chairmen:

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South Dakota School of
Mines and Technology
(605) 394-2452

Centennial Subsection

Chairmen:

Sadrul Ula
University of
Wyoming
(307) 766-6268

RockIEEE Overlook

EDITOR:

John Tary
7739 Spring Drive
Boulder CO 80303-5036
(303) 499-2164
(303) 673-9936 Fax

PUBLISHER:

Tim Davis
(303) 466-1117
(303) 466-1118 Fax

The Overlook newsletter is published with FrameMaker V3.01 software. Electronic copy is preferred and may be submitted on DOS/Mac 3.25" disks or via modem in ASCII, Tiff, PICT, or Postscript formats. Plain text can be faxed to me if it is OCR'able. Contact Tim Davis for details.

The Institute of Electrical and Electronics Engineers



Denver Section
7739 Spring Drive
Boulder CO 80303-5036
(303) 499-2164
(303) 673-9936 fax

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Official Newsletter of the
IEEE Denver Section



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The Institute of Electrical and Electronics Engineers, Inc.
445 Hoes Lane, P.O. Box 459
Piscataway, N.J. 08855-0459, USA
1 (908) 981-1393 or 1 (800) 678-IEEE
Fax: 1 (908) 981-9667



10/02/93 DNVR
DAVID B RICHMOND
2921 SO SIDNEY COURT
DENVER CO 80231