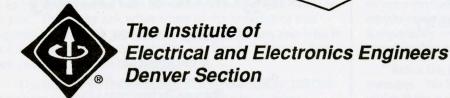
RockIEEE Overlook

Newsletter of

October 1992



IEEE Denver Section Meeting and Election of Officers

Wednesday, October 14, 1992

Holiday Inn, Northglenn, I-25 & 120th 6:00 Dinner, (\$15, Student members 1/2 price) 7:00 Program

Speaker

Ed Lochrie

Telecommunications Engineer
System Protection and Telecommunications Department
Tri State Generation and Transmission Assoc.

"Using Cellular Telephones for Utilities Data Acquisition"

A unique application of data gathering from remote sites will be discussed. The talk will focus on unusual problems, cost analysis, advantages, and a number of other features of this new approach to data acquisition.

Please call Anita Wanberg, 220-8042, for reservations.

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

Joint PES/IAS

Power Engineering/Industry Applications

Thursday, October 15, 1992

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

6:00 p.m. Social 6:30 p.m. Dinner (optional @ \$10.00) Student members free. 7:30 p.m. Meeting

Speaker

Jeanne-Pierre Wolff Vice President, Electro-Test, Inc.

"Lightening Protection Grounding"

Mr. Wolff will review the principles of lightning and lightning protection systems for building structures and substations. The ANSI/NFPA 78 standard will be reviewed and various types of lightning protection hardware will be discussed. A typical high-rise roof structure lightning protection system design example will be presented, along with inspection and testing methods.

Please contact Barbara at Peterson Company, 388-6322, by Monday, September 14, 1992.

Local ChapterWins Award

Barry C. Brusso, Chairman of the Chapters
Department of the Industry Applications Society,
recently announced that the Denver, Colorado Chapter
- Region 5 had been selected as the "Outstanding Large
Joint Chapter" for the 1991-1992 year. A Certificate of
Award will be presented at the IAS annual meeting in
Houston, Texas.

Magnetics Society

Wednesday, October 21, 1992

5:30 - 6:30 p.m. Synergy Conference Room, Building 6 Storage Technology 2270 S. 88th St. , Louisville, CO

Speaker

Dr. Archie Smith, Advanced Technology Storage Technology Corporation

"Optical Recording Technology"

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

For more information, contact Subrata Dey, (303) 673-6494.

Joint MTT/AP/GRS and Joint VTS/COMSOC

Thursday, October 29, 1992

4:00 p.m. University of Colorado, Boulder Engineering Building, Room CR 1-40

Speaker

Ferdo Ivanek IEEE MTT Distinguished Speaker

"Progress and Change in Microwave Radio Communications"

Terrestrial and satellite based radio communications continue to represent the major commercial microwave market segment worldwide. Vehicular and personal mobile radio services and their derivatives represent the next major microwave application area. The impact of "consumeration" on the microwave industry is examined, and its implications for the MTT-S are discussed.

Contact Zoya B. Popovic, (303) 429-0374, if you have any questions.

Chairman's Corner

by Paul Meisel

Membership is an important requirement for the continued existence of any organization. The IEEE has much to offer its members and does. What we need to do is to invite engineers who are not members of the Institute to join. They may ask what some of the benefits of this organization are. It is a natural question for anyone who is not a member of an organization but has an interest. Are you ready to explain the benefits?

The IEEE is an organization of approximately 320,000 members worldwide. We can potentially learn from anyone of the members. Typically however, we listen to a few who present papers at meetings or write books. The interesting part is that as a member, you can directly converse and question the authorities to obtain information which is pertinent to your own work.

The IEEE has thousands of publications, videos, and other technical offerings such as televideo conferences in addition to the technical meetings and seminars held throughout the world. There are also technical books available as well as technical standards which are used throughout the world daily. The IEEE in the U.S. also offers its members insurance packages for health, life, disability and hospitalization.

To ask a friend and colleague to join IEEE is to do him/her a favor. To continue a membership in IEEE is to recognize the importance of remaining technically current in your profession. It is essential for continued employment and enjoyment. For those who are temporarily unemployed, IEEE has special reduced membership fees.

Ask a friend to day if he/she would like to become a member. We have membership forms available and can make them accessible by mail, or you can pick one up at the next local meeting -- chapter or section. Remember to do your friend a favor by asking him/her to join.

POWER TRANSMISSION & DISTRIBUTION SERVICES

FICHTNER ENGINEERING, INC. 2801 Youngfield Street, Suite 121 Golden, Colorado 80401

> Tel. (303) 238-7548 Fax (303) 238-7798

Arun Arora President Tom Gibbs General Manager

Section Officers Nominated

The nominating Committee wishes to nominate the following slate of officers for the 1993 Denver Section Board.

Chairman Sr. Vice Chair Vice Chair, Members Services Vice Chair, Student Activities Secretary Treasurer Tom Gibbs, Fichtner USA
Darrell Sabatka, Public Service
Michael Meister, NTIA
Doyle Ellerbruch, Metro State College
Subrata Dey, Storage Technology
Diana Lindstrom, Self-Employed

Election of the section officers will take place at the Section Meeting on Wednesday, October 14, (See page 1). If you are interested in being nominated for a board position, or if you would like to volunteer for an Executive Committee position (see list on back of Overlook), please call Gary Petersen, Nominations Chairman, at 571-3626.

Serving Colorado and The World T3 Systems - Since 1885 -Robert Mashlan We develop software and firmware for realtime United Engineers & Constructors · Mining & Metals measurement and control applications, BRUCE E. HAYDEN, P.C. targeting embedded microprocessors and PCs. ATTORNEY AT LAW · Aerospace & Defense Data Collection & Communication Biotechnology FIELDS, LEWIS, PITTENGER & ROST 1100 WRITER COMMONS BUILDING 1720 SOUTH BELLAIRE STREET Motion Control, Custom Interfaces · Pharmaceuticals P.O. Box 5888 User Presentation in DOS & MS Windows · Hazardous Waste (303) 449-3322 (303) 843-2000 Free estimates.

WINNING THE EMPLOYMENT GAME

Career Goal Setting and Job Hunt Strategies Workshop

Provided by the IEEE Denver/Pikes Peak Section and Professional Engineers of Colorado

This workshop will help you to take increasing responsibility and control of your career. Facilitated by a well established career management expert, the knowledge and skills you gain from this workshop will enable you to "navigate" your career, rather than allowing it to drift. You will find out about the five elements of your career self and how to increase work satisfaction through a step-by-step career development process. Whether you are seeking to improve your career within your present organization, or desire to seek a position in the open market. the techniques you will learn are applicable short term and long term, including retirement planning. In addition, you will have a unique opportunity to ask questions and take advantage of the many years of experience our facilitator has gained in the career assessment and job search field. Pick his brain and get tips on "guerilla tactics" that will help you identify and land the job you want in a highly competitive market, whether you are conducting an internal or external job hunt. Discover the many ways to determine and develop your career path.

This workshop is open to all professionals, members or non-members, employed or unemployed. The tools and techniques presented in this workshop are applicable whether you are looking for a job due to external forces (mergers, takeovers, downsizing, restructuring, places going out of business...) or internal forces (tired of your present job, want to do something new and challenging...). They are designed to be valuable now during a job search, and longer term as you work to achieve your ultimate career goals.

OBJECTIVES:

Assess yourself through a thorough examination of your background and natural talents.

Define and prioritize the basic elements of your career self including your work values, interests, personality strengths, skills and job objectives.

Integrate the top priorities of your career self into a written, focused career goal statement, that includes a job objective, qualifications statement and preferred work environment.

Learn how to research, identify and evaluate job opportunities that satisfy the criteria described in your career goal.

Select the career development options that best enable you to achieve your goal.

Learn how to develop and execute marketing strategies that get you the job you want, including demand analysis, phone calling, tailored resume, cover letter, follow up, interviewing, as well as job and salary negotiation.

SCHEDULE: Saturday, October 17, 1992 8:00 a.m. - 4:00 p.m.

LOCATION: Denver Univ. Boettcher Auditorium, 2050 E. Iliff Ave. Box Lunch & Refreshments Provided

FACILITATOR: Paul Unks, M. Ed., is a senior career development consultant at Hutchens Resnik with over fifteen years of experience specializing in individual career counseling, and organizational consulting and training. He teaches at the University of Colorado and Denver University. His areas of expertise include career management, managing stress and wellness, and communications. He has helped thousands of clients and conducted innumerable seminars across the country. Whether Paul is working with individuals of large groups, his objective is the same: to help others achieve greater satisfaction and success in their work and personal lives. Paul served as director of the Center for Career Development in St. Louis, Missouri for five years prior to moving to California in 1980 when he began his consulting practice. He has studied and worked with Sam Kirk, who along with Richard N. Bolles, spear headed the National Career Development Project and helped write the popular book What Color Is Your Parachute? Paul has a Masters Degree in Counseling Psychology from the University of Missouri and is a recipient of the top training and development award in the nation, given by the President of the United States.

REGISTRATION: \$20 IEEE Member, \$50 PEC member, *\$80 Non-members, \$10 Students, Pre-registration is required. Deadline: October 7, 1992 *\$10 may be applied towards new membership Workbook provided. Attendance limited to 100. at time of Registration

For additional information, contact Darrell Sabatka (303) 329-1547 or Jim Higerd (303) 679-4291

The Denver Section appreciates the support of the Professional Engineers of Colorado, the Pikes Peak Section, and IEEE US Activities in providing this workshop.

NAME		REGISTRATION	PHONE		
ADDRESS:			Return to:	Marilyn Peterson	
AMOUNT ENCLOSED:				Public Service Co. of Colorado 5525 E. 38th Ave.	
\$20 IEEE Member	Member No.			Denver, CO 80207	
\$50 PEC Member \$80 Non Member	and Affilation or Scho	ol	Make checks	payable to: "IEEE" Denver Section	
\$10 Student	Please pre-register to guarantee your space. Deadline: October 7, 1992. Denver Section provides this seminar at cost, a service to the professional community.				

IEEE Sponsored

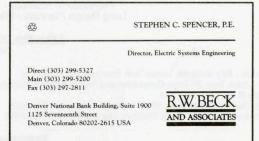
Upcoming Symposia and Workshops

> September 30 - October 2, 1992 International Workshop on Hardware-Software Codesign Estes Park, Colorado Contact: Rich Karcich, (303) 673-6223

October 7-9, 1992 Symposium on Software Reliability Engineering Research Triangle Park, North Carolina

October 30, 1992 WARC-92: Impact on Microwave and Millimeter Wave Developments Denver, Colorado

Contact: Zoya B. Popovic, (303) 429-0374



UNIVERSITY OF COLORADO AT DENVER

The Department of Electrical Engineering College of Engineering and Applied Science presents

Fundamentals of Power Systems Design

Friday, December 4, 1992 CU-Denver (Auraria) Campus Instructor: Dr. Pankaj (PK) Sen Fee: \$195

Don't miss this one-day intensive short course for electrical engineers/designers, facilities maintenance engineers, electrical contractors, inspectors, architects and mechanical engineers. Call Arne Arnesen, Continuing Engineering Education, (303) 556-4907, for a detailed program brochure with registration information.

Overlook Advertising

<u>Ad Size</u>	<u>Rate</u>			
	One Time	<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 approx, 4225) and delivered to the printer.

Deadlines for 1992-1993

November 1992 Newsletter - October 2, 1992

January 1993 Newsletter - December 1, 1992 February 1993 Newsletter - January 1, 1993

April 1993 Newsletter - March 1, 1993 May 1993 Newsletter - April 2, 1993

March 1993 Newsletter - February 1, 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.

The Institute of Electrical and Electronics Engineers - Denver Section Executive Board

Chairman H. Paul Meisel Hydrologics, Inc. 3101 S. Platte River Dr. Englewood CO 80110 (303) 761-6960 Sr. Vice Chairman Lew Beck, Jr. Peterson Company 4949 Colorado Blvd. Denver CO 80216 (303) 388-6322 Vice Chairman Members Services Rory Lalho IBM, Dept. 7R8B/042H 5600 N. 63rd. St. Boulder CO 80314 (303) 924-3879 Vice Chairman Student Activities Doyle Ellerbruch Metro. State College P.O. Box 173362 Denver CO 80217 (303) 556-4007 Secretary **Tom Gibbs** Fichtner/Lee Wan 2801 Youngfield St.#121 Golden CO 80401 (303) 238-7548 Treasurer Diana Lindstrom 7377 Arbutus Ct. Arvada CO 80005 422-9374

Past Chairman - Gary A. Petersen, Public Service Company of Colorado, 571-3626
 Educational Activities - P.K. Sen, University of Colorado - Denver, 556-2872
 Professional Activities - Darrell Sabatka, Public Service of CO, 329-1547
 Long Range Planning - Michael J. Foley, Forensic Engineering Inc., 730-7707

Executive Committee (Includes Executive Board) Standing Committee Chairmen

Society Chapters - Ray Jukkola, Waste-Tech Services, Inc., 273-7106 Conferences - John Tary, Tri-State Generation and Transmission Association, 452-6111 Awards - John R. Reesy, 755-1720 Student Fund -Dennis Edwardson, Black & Veatch Engineers, 671-4245 Professional/Industrial Liaison -Tony Thomas, General Electric, 753-2289 Nominations - Gary A. Petersen, Public Service of CO, 571-3626 Membership - Don E. Lindahl, Siemens Energy & Automation, 770-7907 Pre-College Student Activities - Michael Meister, NTIA/ITS.NI, 497-6571 Student Branch Activities - Daniel Greco,

Executive Committee (Ex-Offico Members)

Subsection Chairmen

Black Hills - R.D. McNell, , 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, 429-0374
Joint Vehicular Technology/Communications - Ken Shugg, Martin Marietta Information and Communications Systems, 971-7051

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. Subrata Dey, Storage Tek, 673-6494 Power Engineering - Kenneth McBryde, CO Ute Electric Assoc., 249-4501 Reliability - John Adams, ValleyLab, 530-2300

Senior Past Chairman - John R. Reesy, 755-1720

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 P.O. Box 4056 Englewood CO 80155-4056 Phone: 220-8042 Non Profit Org.
U.S. Postage
PAID
Denver CO
Permit No. 1993

The Month at a Glance

October 2, 1992 Overlook Deadline

October 14, 1992
Denver Section Meeting/
Election of officers

October 15, 1992 PES/IAS Meeting

October 17, 1992
Winning the Employment Game

October 21, 1992
Magnetics Society Meeting

RockIEEE Overlook Official Publication of the IEEE Denver Section