RockIEEE Overlook

Sitting in THE chair
Darrell Sabatka, Section Chair

National Engineer's Week is just around the corner. Give Paul Meisel a call if you can volunteer a few hours in your school or your place of work. Don't forget the Engineer's Dinner. Jeff Wilson of Peterson Company has accepted the position of Pre-College Student Activities Committee Chair. Jeff already is in many of the schools and is the 1994 President of the Colorado Power Council. Welcome aboard Jeff!

We have been trying to increase our membership in the Denver Section. As of November 30, the Region 5 growth is 4.9% and the Denver Section is 4.0%. The membership drive started in August and runs through December 1993. I hope everyone gets involved this year in the 1994 IEEE Member Get A Member campaign. Call our new Membership Committee Chair, Heather L. Silbey for forms and additional information. Heather works at Raytheon Engineers & Constructors. Call her and welcome her aboard. She is a talented and excited individual. Welcome to the Executive Committee!

I would like to offer my personal congratulations and recognize two IEEE members who have been elevated to the grade of "Fellow" effective January 1, 1994. Fellow grade is the highest obtainable grade achieved by less than 0.25% of the membership. Gordon W. Day of Denver was awarded Fellow for technical contributions and leadership in lightweight measurements and optical fiber sensors. Thomas L. Weaver, also from Denver, was awarded Fellow for leadership in advanced planning, design and applications of new technologies to enhance the efficiency and reliability of electric power delivery systems. It is a honor to have these new Fellows in the Denver Section.

Sidetones
Signal from/about the Membership

Welcome, happy to add Michael Meister to the Overlook group, Michael will substitute for Tim Davis as publisher. Tim is out of state on a consulting job. Best to a good friend, an IEEE member and former resident of Colorado, Ed Florman. Ed is 90 years young this month and has been living in Fairfax, VA. the past 30 years. His many accomplishments included speed of light measurements, early discovery of the jet stream, and testing telecommunications systems. He began his career as an electrician working nights in the steel mills. Interested in Antennas and Propagation? May we suggest Ernie Smith's articles in the propagation corner in the IEEE A&P Magazine. There is always a good report of various meetings and pictures of familiar faces. From comments in the December issue, we have formed a lasting impression of Beijing weather in August. The Colorado-Wyoming Junior Academy of Science has just completed 35 years of service to high school students in the two states. We offer our congratulations to Elemir Bernath, Executive Secretary and others for giving their time and effort to this group. John and Barbara Ziegler (303) 978-0735 have introduced Sci-Tech Academy, a 21st century school which uses state-of-the-art technology to provide an optimum learning environment to all students. John has been associated with Lab 3000 in Englewood. New time and frequency services paper from NIST, Boulder, paper no. 37-93, contact, Sarah Beth Moynihan, (303) 497-3237. The Denver Section on Oct. 2-6 will host the IEEE Industry Application Society Annual Meeting. Paul Meisel our past Section Chair will chair the conference. Paul is the past president of that society and has been chair of two other annual meetings. We all appreciate your personal effort Paul. The Denver Section sends greetings to our Wyoming members in Wheatland, C. Detsch, in Guernsey, Mark Clingman, in Torrington, Arthur Hunter, in Rawlins, Rick Caldwell, in Encampment, William Walters, and in Medicine Bow, William Young.

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EMPLOYMENT SEMINAR MARCH 19, 1994
Details inside the Newsletter
Society Chapter Meetings

IEEE Electromagnetic Compatibility Chapter Meeting

Date: Tuesday, February 17, 1994, 4:00 pm
Location: National Institute of Standards & Technology, 325 Broadway, Boulder, CO
Speaker: Dr. Ernest Smith, NASA Propagation Information Center, University of Colorado
Topic: NASA Propagation Programs over the years

Joint Power Engineering & Industry Application Societies Chapter Meeting

Date: Thursday, February 17, 1994, 6:00 pm Social, 6:30 pm Dinner, 7:00 pm Meeting (Dinner optional: $13.00, Students free)
Location: Holiday Inn, S.E., I-225 and Parker Road
Speaker: Ben Parvey, City of Colorado Springs Electric TD & Dept.
Topic: Foundations used as a component of Substation Grounding System

Laser & Electro Optics Society Chapter Meeting

Date: Thursday, February 17, 1994, 7:30 pm
Location: NIST, Room 1107
Speaker: To be announced.

Joint Computer/Information Theory Society Chapter Meeting

Date: Thursday, February 17, 1994, 5:30-7:30 pm
Location: St. John, Cleveland, OH
Speaker: Robert W. Przybylo, (512) 567-3192
Topic: Mathematics for Electrical Engineers

Engineering in Medicine & Biology Chapter Meeting

Date: Wednesday, February 16, 1994, 7:00 pm
Location: VALLEYLAB, Training Center, Fikes Peak Conference Room, 5920 Longbow Drive, Boulder, CO
From US 36, take the foothil Highway north to the Dinosaur. Go northeast to 63rd Street, turn south onto 63rd & another right onto Longbow Drive. Follow Longbow to the second VALLEYLAB sign. Follow the road to the "L" of the buildings (to the flagpoles) & enter the building through the doorway on the south side of the "L". Upon entering the Valley Gallery, go down the stairs to the training center. The meeting rooms are on the left.

Speakers: Ken Taylor, Introduction
Mike Klock, Electro-surgical Instruments
Bill Cimino, Electrosurgical Instruments
Reservations: Harry Valetta, (303) 690-9688

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

Date: Thursday, January 27, 1994, 4:00 pm
Location: National Institute of Standards & Technology, 325 Broadway, Boulder, CO
Speaker: Dr. David A. Hill, NIST
Topic: Aperture Excitation of Electrically Large Lossy Cavities

Conferences & Meetings

Feb. 8-11
North American ISDN Users' Forum (NIUF), Denver, Dawn Hoffman, (303) 975-2937

Feb. 10
The Assoc. of Colorado Telecommunications Professionals, For information call, (303) 628-6964

Feb. 5-12
12th Annual IEEE Aerospace App. Conf., Vail, Robert A. Profer, Trans-Spectrum Corp., 2408 Palm Ave., Manhattan Beach, CA 90266, for information call (310) 545-9670

Feb. 15-17
NCA/AMC, Denver, Communications Conf. (Nat. Coal. Assoc.), (202) 463-2561

Feb. 20-26
National Engineers Week, Paul Meisel, (303) 673-9930

Mar. 6-9
ENTELCC, (Energy Telcom. & Elect. Assoc.), San Antonio, TX, Martha Fike, (214) 255-0655

Mar. 14-17
AM/PM International, Denver, Darile Bourke, (303) 426-8333

Mar. 16-18
INFOCOM, Denver, Maclean Hunter Presentation, Inc., (303) 696-6100

Mar. 29-31
3rd International Conf. on MCM's, Denver, (Multi-chip module), IEPS, (708) 260-104

Apr. 8
Society of Technical Communications (STC) Rocky Mountain, Denver, (503) 375-1937

Apr. 10-13
Rocky Mountain Health & Safety Conf., Denver, (503) 375-1937

Apr. 24-26
IEEE Rural Electric Power Conference, Colo. Springs, Don Werner (402) 636-2585

Apr. 25-27
American Power Conference, Chicago, IL, Robert W. Przybylo, (512) 567-3192

Apr. 26-27
IEEE Conf. on Communications, Networking & Signal Processing, Chicago, KS, David Gilbert, (512) 522-4951, ext. 354

May 1-3
RMEL, (Rocky Mtn. Electrical League) Estes Park, William Rosol, (303) 778-7556

May 4-5
Rocky Mountain Technology Expo (SACER), Denver, Anita Watanabe, 202-8042

May 8-12
1994 IEEE Substations Committee Meeting, Los Angeles, CA, Don Laird / Wayne Block, (213) 481-4764 or (213) 481-3427

May 9-10
UTC Region VIII Annual Meeting, Denver, George Stoll, (303) 571-2677

May 12-13
Power Engineering Summer Meeting, Denver, Chair: Gary Peterson, Public Service Company of Colorado, (303) 329-1956

February 1994
RockIEEE Overlook
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) 529-1615. Please give your name, address, phone number and the special identification code to Marilyn. She will have the member contact you directly.

1992 BSEE Graduate. Strong technical and computer background seeks engineering employment. Six years experience as field/bench technician and 5 years programming low and high level languages. (A2G01)

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

MSEE. Experience with PLC's instrumentation controllers and power electronics. Developed 6805 controller for small machine. Three years supervision experience with large manufacturer. Prefer design or R&D position. Will relocate (A19W01)

Computer Science Ph.D. 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 50 background. (A25B02)

BSEE. Two years of 3480 tape controller programming. SCXI-2, diagnostics. Ohech: Motorola 6800, VM/CMS, REXX, C, CP/IP bus. Also power systems and controls. (MA012001)

Human Factors. Experience, product and system development, assurance and manufacturing. Telecommunications: Videotex, Laboratory and field usability testing. Occupational Ergonomics. Enjoy diverse teams; strong presentation/ creative and practical. Take multiple roles. MA plus. (A28K01)

Professional engineer with BSEE and BSBA degrees. Experience: 9 years telecommunications, 7 years test, 3 years marketing, 1 year project engineering and a proactive supervisor. (Y24H01)

Masters level professional. I have 7 years Systems Engineering experience and am seeking an opportunity in product development or test in Biomedical Electronics, Control Systems or Communication Electronics. Willing to relocate (Au3H02)

BSEE. Problem solving and adaptable individual, seeking opportunities in product development for instrumentation or communication. Seeking customer support and technical writing background. (SO4H01)

Software Development Manager. Know 2167A, TQM tools, SEI and ISO 9000. Managed development and system integration/test on variety of hardware, language and DBMS in engineering and scientific application, planning, problem solving. (SO4L02)

December BSEE, graduate. Have subsystem control and protection experience. Seeking entry level engineering employment. Extensive computer experience. Vice-Chairman IEEE student chapter. Passed the EIT exam 4-93. (G28SO0)

Communications Application Engineer. 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 TWPP, microwave and satellite communications with network switching and management facilities. (00W02)

Hardware/software Engineer. 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. (00S02)

Positions Available

Control Sales Engineer
Sales position open for an engineer with factory automation experience, including application of sensors, PLC's and general purpose control. The position is a Field Sales Engineer for a large, multi-national electrical manufacturer. Complete benefits package including company car. Ideal candidate would have a BSEE or BSME and several years experience selling industrial control products. Position located in the Denver field engineering facility. Please send resume and cover to Tony Thomas, 8466 E. Hinsdale Drive, Englewood, CO 80112.

Operations Team Engineer (6 positions)
Background: Electrical appliance, instruments, equipment, automotive, medical devices. Experience in: R & D engineering; manufacturing. Engineering salary range $55,000-$90,000. Location: Ohio (Company paid relocation). Top 50 benefits package. Fax resume to (813) 738-0547

Cellular Communications

Electrical Design Engineer (Denver)
At least one year of experience, preferably with a consulting firm. Must have strong CAD experience, performing complex-based calculations. Salary depending on experience. Call Denise at (303) 425-8721.

Director of Engineering

Product Development Engineer Power Electronics
Position will be responsible for developing advanced technology control, driver and protection circuits and customer interface circuits for 400 Hz inverters up to 300 kVA. Candidates must have design experience in the field of power inverters and be familiar with all critical aspects related to the design of such products such as alternative pump schemes, snubbers, harmonic distortion, voltage regulation, response time and stability issues and factors influencing audible noise and EMI. Location Central Connecticut. Contact, Catherine A.H. Mathews, (203) 834-1111, FAX (203) 834-2666.

EMPLOYMENT SEMINAR
MARCH 19, 1994
8:30AM to 2:30PM
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THIS SEMINAR IS SPONSORED BY THE DENVER SECTION OF IEEE. THE SEMINAR WILL COVER ALL ITEMS WHICH YOU MUST DO TO GAIN REENTRY INTO THE EMPLOYMENT SECTOR, INCLUDING DETERMINATION OF YOUR CAPABILITIES. NETWORKING WILL BE DISCUSSED, AS WELL AS NO-COST BENEFITS AVAILABLE TO IEEE MEMBERS. IF YOU ARE PRESENTLY UNEMPLOYED, THIS SEMINAR IS IMPORTANT FOR YOU. RESERVATIONS MUST BE RECEIVED BY MARCH 11, 1994. SPACE IS LIMITED. RESERVATIONS WILL NOT BE ACCEPTED AT THE DOOR. THE COST OF THE SEMINAR IS $20.00 PAYABLE IN ADVANCE. LUNCH AND BEVERAGE FOR BREAKS WILL BE PROVIDED.

PLEASE CONTACT MARILYN PETERSON @ (303) 929-1615 DURING NORMAL BUSINESS HOURS OR SEND THE RESERVATION TO:

MARILYN PETERSON
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DENVER, COLORADO 80207

I shall attend the Employment Seminar on Saturday, March 19, 1994. I am sending a check for $20.00 made out to the Denver Section of IEEE.

Name:

Address:

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February 1994

February 1994
ATTENTION! Something's on fire in this column!

The Society of Manufacturing Engineers (SME) has a 24-hour electronic bulletin board, SME-ON-LINE that posts news every day for members, such as automation engineer manager, NC engineer, R&D shop manager, technical education manager, director of manufacturing, production team leader, and benchmarking engineer. SME-ON-LINE can communicate with computers up to 14,400 bps. Communication software should be set to the highest speed the modem can handle. ANSI emulation, eight data bits, no parity & one stop bit (B.U.S.D.). Dial (313) 271-3424 Ref: EMC Test & Design Magazine, page 14, December 1993


Telecommunication History Group, Inc., 931 14th Street, Suite 1400 Denver, CO 80202 (303) 624-0228 Herb Hackenbury, Historian Bob Cook, Archivist

Telephone Pioneer Museum U.S. West Museum Denver Service Center 100S 17th Street - Main Lobby (7 A.M. to 6 P.M., Weekdays, By Appointment Only) No admission charges for either museum

Bob Pence has formed the Pence Group and is available for speaking engagements. Bob is an excellent speaker and master at holding the attention of the audience. He has a variety of subjects and can be reached at (303) 972-3925.

The IEEE Conferences provide an important opportunity for the timely exchange of information among engineers and scientists around the world. The hundreds of technical meetings held each year cover the broadest spectrum of topics of an analytical and sociotechnical nature. Within the IEEE there are 36 societies that address technical subjects and yearly provide a forum for their membership participation. With your help, the Denver Section would like to bring more conferences and meetings to our area. Please let us know your interest so we may begin to work on the proposals and letters of interest.

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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 Master of Technology (M.T.) program at University College. Our M.T. 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 products and process technology throughout their organizations.

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Consider a Student Professional Awareness Conference (S-PAC) as your next student activity! EEE student members have successfully organized more than 300 S-PAC's at colleges and universities across the United States since 1979. At these conferences dynamic regional speakers present professional issues—technical career concerns to students. Topics include developing your engineering career, confronting ethical dilemmas in the workplace, the value of advanced degrees, getting into management, joining a professional society, and many other engineering employment issues not usually covered in the classroom. For more information on S-PAC, contact Ann Hartfield at the IEEE-USA Office, 1828 L St. N.W., Washington, DC 20036-3954; telephone (202) 785-0007; fax (202) 785-0835.

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Nominations: H. Paul Meisel, Magnetek Corporation Automation Technologies, (303) 673-9930
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Student Branch Activities: Dan Greco, (303) 565-7291

Chapters

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RockIEEE Overlook
Editor: John Tary
7739 Spring Drive
Boulder CO 80303-5036
(303) 499-2164 Phone
(303) 673-9936 FAX

Publisher: Tim Davis
(303) 466-1117 Phone
(303) 466-1118 FAX

The Institute of Electrical and Electronics Engineers
Denver Section
7739 Spring Drive
Boulder CO 80303-5036
(303) 499-2164 Phone
(303) 673-9936 fax

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