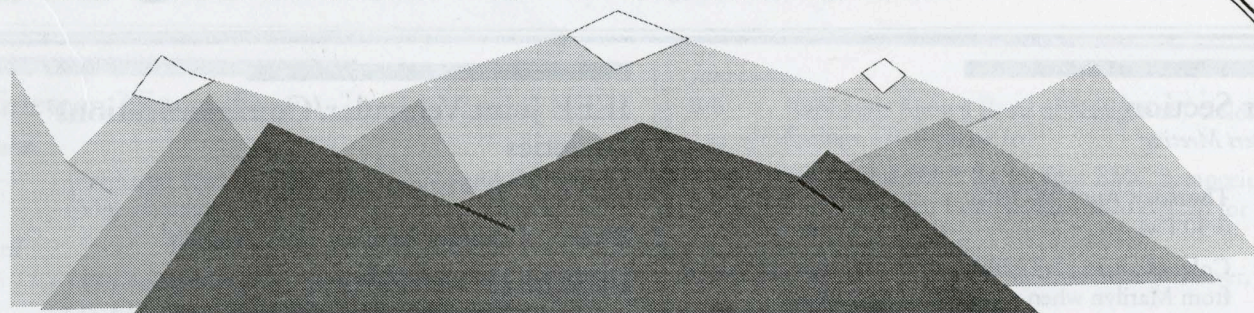


RockIEEE Overlook



April 1994

Behind the Chair

By Diana Lindstrom

With Darrell visiting parts of Europe, I have the opportunity to communicate with you. I have a completely new office to define, Chair-elect. The Executive Committee approved the change in our Section's Bylaws to create the office. This allows for the new Chair to have one year before assuming office to become familiar with the duties of Chair, meet and get to know Region 5 Officers, meet and work with other sections officers, and get to know the membership better. Being the first person to be elected to this position give me the opportunity to start the work in these areas.

I have also been assigned the pleasant duty of being the Section's e-mail liaison. IEEE has world-wide INTERNET access through schools, business and government organizations. The Denver Section has received permission to use a toll-free number to the University of West Virginia and to use the STAR ASSET system. All IEEE volunteers and sections are eligible to receive e-mail aliases from IEEE Headquarters. The Denver Section's alias is:

sec.denver@ieee.org

I check the "mail" every day except system maintenance days. If you have access to INTERNET through work or school, get permission to use it for IEEE Activities

and apply for an alias. Please contact me at the above address if you need more information on getting an alias from IEEE.

It seems that we haven't been very good about letting the eight universities in our Section know about a very special fund that we have. It's called the Student Fund. Using only the interest/dividends earned on a principle which was donated and specified for this use, this fund can be used for any age student. It is presently budgeted for junior high, senior high, and college students. It presents a special prize for a senior project and a special prize for a junior project at the Colorado Science and Engineering Fair, helps support the Science Olympiad, and accepts request for funding other student projects and activities. The student Fund Committee has authority and responsibility for the expenditures from this fund. Ed Pitchkolen is the Chair of this committee. If you'd like more information about the Fund, please call Ed.

And remember, every new member made IEEE stronger.

Sidetones

Signal from/about the Membership

The Denver Section's employment hot line can be reached by calling Marilyn Peterson, (303) 329-1615. Those seeking employment please reduce your resume to

about 30 words and fax to (303) 673-9936 or mail to 7739 Spring Drive, Boulder, CO 80303-5036 (John Tary) The system is working and we have had a good response. If you are seeking employment or have a position open we offer this free service. • Each month the RockIEEE Overlook is printed by Centennial Printing of Louisville Colorado. Ed Yeager and his staff produces an excellent product in a timely manner. Thanks Ed. • We welcome Bill Whipkey and Fred Jones to the Denver Section Board and Executive Committee. Nice to have you back Bill and Fred. • We regret the passing away of Arnold Stroud, Cedaredge, Colorado. • Before the merger of IRE and AIEE, the 10 last chairmen of the Denver Section AIEE were H.F. Gidlund, W.A. Morgan Arlie Paige, Max Kight, O.P. Settles, H.P. Deming, John Martin, Wayne Smith, Bill Hanna and F.E. Swain (1953 through 1963). Bob Struthers, 1993 Section's Society Chapters Chairman issued the following chapter

please continue on page 4

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**The Denver Section 'All Chapters Meeting' is
Thursday April 28th. Plan on attending!**

Society Chapter Meetings

Denver Section

All Chapters Meeting

Date: Thursday, April 28, 1994
6:30 PM

Location: Colorado School of Mines - Obtain further directions from Marilyn when you make reservations.

Speaker: Colorado School of Mines Student Members
"Micro Mouse" and various senior projects

Dinner: Pizza and soft drinks at 6:30 PM Dinner cost \$4.50; Student members free

RSVP: Call Marilyn Peterson, 329-1615 by Monday, April 25

Centennial Subsection

Meeting

Date: Wednesday, March 16, 1994
Refreshments: 6:30 PM
Presentation: 7:00 PM

Location: University of Wyoming Campus
Engineering Building, Room 1062

Speaker: Arne Barras
Evolution of Programmable Logic Devices

Agenda: Simple PLDs, complex PLDs, FPGAs & Xilinx Product line

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

Chapter Meeting

Date: Thursday, April 21, 1994, 4:00-5:00 PM

Location: NIST
Room 1103
325 Broadway
Boulder, Colorado

Speaker: Professor V.I. Thatariskii
University of Colorado & Wave Propagation Labs.
NOAA

On the equivalence of the Rayleigh equation in diffraction and the equations based on Green's formula for Dirichlet problem.

IEEE Joint Vehicular/Communications Societies

Chapter Meeting

Date: Tuesday, April 12, 1994. 6:00 PM

Location: Unique Mobility
425 Corporate Circle
Golden, Colorado

Speaker: Bill Rankin, VP of Operation
Electric Drives and Controls for Vehicles

A tour of Unique's facilities will take place after the talk. If you have any questions, contact Dave Iliff at (303) 757-1797 or Mark Schriver (303) 794-6118.

IEEE LEOS

Chapter Meeting

Date: Thursday, April 21st at 7:30 PM

Location: NIST, 325 Broadway, Boulder Colorado

Speaker: Prof. Nan-Marie Jokerst
Georgia Institute of Technology
Current President of Atlanta LEOS Chapter

Subject: Optoelectronics

Consulting Network

Meeting

Date: Friday, March 25th at 3:00 pm

Cost: \$5.00

Location: Ramada Hotel
U.S. Hwy 36 and Sheridan
Westminster, Colorado

Speaker: Tom Werder, Gorilla Marketing Incorporated
"Unique Selling Proposition"

RSVP: Tim Davis, 303.466.1117, or email to timdavis@tdcon.com

Consulting Network

Tentative Meeting

Date: Friday, April 29th at 3:00 pm

Location: Ramada Hotel
U.S. Hwy 36 and Sheridan

Subject: Getting Connected to and Using the Internet

The Event Horizon

Nineteen Ninety Four

March

31-1 Integrated Resource Planning Conference
(303) 770-8800

April

5-6 1994 Rocky Mountain Telecommunications Exposition, (TCA) Denver, call (303) 860-6125

8 Spring Conference of Society Technical Communication (STC)-"Mapping the Information Highway", Call Mark Lee, (303) 673-2043 (w) or 464-8391 (h)

8-10 ENTCON '94 (Entrepreneurs Conference), Denver, call (719) 254-4558

8-10 IEEE Region 5 Conference, Colo. Springs, Call John Reinhert, (719) 598-0310 or Steve Rogers, (719) 527-2250, or Charles Wright, (303) 233-5553

10-15 13th IEEE/PES Transmission & Distribution Conference & Exposition, Chicago, IL, Call (800) 323-4961 x494

13-15 Rocky Mountain Health & Safety Conference. Denver, Colorado, 373-1937

14-16 Thirty-Ninth Annual Colorado Science & Engineering Fair, CSU, Fort Collins,

18-22 1994 IEEE International Conference of Requirement Engineering, Colo Springs, Computer Society, (202) 371-1013

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

29 Colo-Wyo. Junior Academy of Science Thirty-sixth Annual Meeting, @ Univ. of Denver, Info- Elemer Bernath, 803 Ensign, Fort Morgan, CO 80701

26-27 IEEE Wichita Conference. on Communications, Networking & Signal Processing. Wichita, Kansas, David Gilbert, (316) 522-4981, ext 354

May

1-3 RMEL (Rocky Mtn. Electrical League) Estes Park, William Rosol, 778-7536

4-5 Rocky Mtn. Technology Expo (ERA/ISA) Denver, CO. Dave Hurlbut, (303) 279-7796

9-10 UTC Region VIII Annual Meeting, Denver, George Stoll, 571-2677

12 The Assoc. of Colorado Telecommunications Professionals, Info, 628-6964

12-13 Industry 2000 Workshop, Denver, John Meredith, HP, (719) 590-1900

31-3rd Conference on the Science and Technology of Superconducting Films, Breckenridge, Call NREL, Golden, CO, (303) 231-1040

June

6-8 ION 50th Annual (Inst. of Navigation) Colorado Springs, (703) 683-7101

10 4th Annual IEEE Rocky Mtn EMC Symposium, @ NIST Boulder, Bob German, Info & Call for Papers (303) 444-2472

15-17 National Meter Reading Conference, Denver, Joan Roth, (303) 571-3236

16-19 NCA, Annual Convention, (Nat. Coal Assoc.) Colorado Springs, Katherine Kirkpatrick, (202) 463-2651

20-22 Device Research Conference, Univ. of Colo., Boulder, Joseph C. Campbell, (512) 471-9669

27-1st Precision Electromagnetic Measurements, Boulder, Call for papers, Gwen E. Bennett 497-3295, info Fred McGehan, 497-3246

September

8 The Assoc. of Colorado Telecommunications Professionals, Info 628-6964

28-29 T&D Maintenance Management, Colorado Springs, Mark Swan, (719) 636-5501

October

? UTC Fall Technical Conference, Ft. Collins, Mike Schmitz, 299-5269

19-21 International Wireless Communication Expo Tampa, FL, (800) 828-0420

2-6 IEEE Industry Application Society Annual Meeting Denver, Chairman: Paul Meisel, MagneTek, 673-9930, FAX 673-9936

6-7 NETfair '94 (formerly known as LANfair) Denver, Info Mark Cramer, (303) 771-2000

25-27 NRECA, '94 Regional Meeting, Denver (National Rural Electric Cooperative) Mary Smallwood, (202) 857-9553

November

10 The Assoc. of Colorado Telecommunications Professionals, Info 628-6964

Years to Come...

January - 1995

4-7 URSI, National Radio Science, Boulder (303) 492-7123
September - 1995

10-14 IEEE Petroleum & Chemical Meeting, Denver, Chairman, John Nelson: Nelson Engineering, 431-7895

July - 1996

27-2nd IEEE Power Engineering Summer Meeting, Denver, Chairman: Gary Peterson, Public Service Company of Colorado, 329-1506

November - 1996

1-4 Sections Congress, Denver Chairman, John E. Martin, (303) 233-0023

meeting attendance report for the year. EMC (108) AP/MTT/GRS (210) C/IT (57) PE/IA (375) VT/COM (107) LEO (127) MAG (185) & R (292)

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Project Engineer (BSEE) - Analog and digital circuit design, microprocessor applications, and product development for over 14 years. Experience in diode lasers, EMC, CAE/CAD, RF, PC's and all aspects of engineering. Seeking hands-on Product Design and Management position in Boulder area. (F11W03)

1992 BSEE Graduate. Strong Technical and Computer background engineer, seeks employment. Over 8 years experience as a Field/Bench Technician and 7 years of experience with computers, combined. (J10M02)

1994 MSCS Graduate. 10 plus years designing software and implementing software solutions. Knowledgeable with artificial intelligence, neural networks, genetic algorithms and data fusion technologies. Seeks R&D opportunity implementing adaptive and learning techniques to analytical challenging problem domains. (F04P01)

BSEE. Experience includes curtailable load contingency planning, motor interlocks, battery backup systems, power line construction, electrical motor testing, plant engineering. Computer experience includes dBase programming, UNIX, VMS, DOS. (F04D01)

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Real-Time Software Engineer.

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Lead Systems Engineer. Communications Systems.

Requirements- High volume communications message processing experience, Digital communication store and forward message networks, Hands on knowledge of AUTODIN message network, Communications network interface devices/back end communications line interfacing issues, Protocol development, Microprocessor based firmware, H/W & S/W design, development and integration, Debugging and testing, accreditation and certification, and experience in box level processing. Contact Catherine Miclat, (804) 827-9010, FAX (804) 827-9081

Project Manager. Power Supply Planning.

Electrical Engineer, salary range \$42, 276 -\$65,760, a minimum of five years experience. Must have excellent ability in transmission planning, load flow studies, marketing, computer skills, proposal preparation. Knowledge/experience with Co-op's and municipals, power pools, investor-owned utilities, regulatory rate cases, and Energy Act regulations, implications and opportunities. Contact Brenda S. Coleman, (205) 442-0229, FAX (205) 442-1690, or 1-(800) 631-5627.

Printed Circuits Engineer.

Parabola Reflector Design Engineer.

High Voltage Department Manager.

Chassis and Auto-Insertion Area Chief Engineer.

Synchronous Generators Electrical Engineer. (Manufacturing AC & DC Drives)

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Firmware Engineer

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Continued on top of the next page

May 4-5, 1994

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Attention!

Some things on fire in this column!

° The Rocky Mountain Technology Expo, the largest electronics trade show in the Rocky Mountain region, is scheduled for May 4-5 at the Colorado Convention Center in Denver. The show will feature 450 exhibitors displaying more than 2,000 state-of-the-art product lines in components and materials, computer and peripheral products, instrumentation, automation, control equipment, data acquisition, digital signal processing, and packaging and production equipment. A new feature for the Expo will be a Pavilion for Computer Applications, the Pavilion of the future and a special section displaying new products from emerging companies. For more information or free tickets call (303) 799-0650 or 1-800-745-EXPO.

° The Colorado Society of Certified Public Accountants (CPA) have a series of brochures available FREE of CHARGE to help you and your business. For a list of these brochures, write to Colorado Society of CPAs, 7720 East Bellevue Ave., Bldg. 46B, Englewood, Colorado, 80111-2615.

° The 4th annual IEEE Rocky Mountain EMC Symposium is scheduled for June 10 at NIST, 325 Broadway, Boulder. The admission is free to attend this outstanding collection of papers and lunch will be provided for the speakers. The chapter seeks informal papers on all aspects of EMC, including printed circuit board design, grounding cabling, shielding, electromagnetic interference, radio-frequency immunity, electrostatic discharge, lightning, power line disturbance, system-level EMC, medical electronics, test facilities, instrumentation and standards. The authors should submit a title and a short abstract by May 1, 1994 to Robert F. German, c/o Henry Ott Consultants, 1410 Moss Rock Place, Boulder, CO 80304, Telephone/FAX: (303) 444-2472. Written manuscripts are not required because a symposium record will not be published. Each presentation will be 20 minutes with additional 10 minutes for questions.

° Welding Engineers - NIST's Material Reliability Division, Boulder, have compiled a computer primer for welding engineers. The primer defines terms, a list of reference books and an extensive glossary relating to the welding industry. For a copy, contact Sarah Beth Moynihan, NIST, Boulder, (303) 497-7765. Order paper No. 50-93. (Ref: NIST Update, Feb. 14, 1994)

° The Industry Application Society (IEEE-IAS) 1994 annual meeting will be held on October 2-6 at the Sheraton & Hyatt Regency, Denver Tech Center. The technical program is a blend of papers on existing and new technologies in electrical engineering field as it relates to industry applications. Over 300 papers are generated by the broad interest of IAS's 23 technical committees.

Attendance ranges between 800 to 1000 and are from all over the world. Tours of nearby major industrial installation are being planned and will be available to attendees. For additional information, the final program, and registration, see the upcoming September issue of the RockIEEE Overlook or contact Keith Henderson, Electric Power Testing, 4800 Lamar St., Unit B, Wheatridge, CO 80023-3656, (303) 423-2227.

° The IEEE Rural Electric Power Conference will be held April 24-26 at the Sheraton in Colorado Springs. Paper are presented of general interest to engineers working in the field of rural electric power. The conference offers an opportunity for engineering and operational personnel to learn about and exchange experience in the application of electric power to agriculture, rural industries and in rural distribution of electric power. For additional information call Don Werner (402) 636-2585.

° NIST/Mid-American Manufacturing Technology Center (MAMTC), Colorado State University, Fort Collins, is a non-profit organization with the mission of improving manufacturing competitiveness. Is is designed to help small manufacturers grow their business by increasing sales and productivity, reducing cost, and improving quality. MAMTC can assist more than 5,000 small manufacturers in Kansas and parts of Missouri and Colorado. For more information contact Phil Gold, (303) 224-3744, FAX (303) 224-3715. MAMTC's headquarters can be reached on a toll-free number: (800) 653-4333

° The Rocky Mountain Internet Users Group (RMIUG) meets once a month to learn about the Internet through presentations, information sharing, questions/answers and informal conversations. Meetings are typically at NCAR in Boulder on the second Tuesday of the month, 7:00 - 9:00pm. There is an optional 30 minute portion from 6:30-7:00 for new user questions and informal networking. If you plan to attend a meeting please RSVP to Dan Murray at ac551@freenet.hsc.colorado.edu or leave a message at 447-3475. There is an email mailing list setup for the group. Simply send an email to majordomo@csn.org with the message "subscribe rmiug" in the body.

Did You Know...

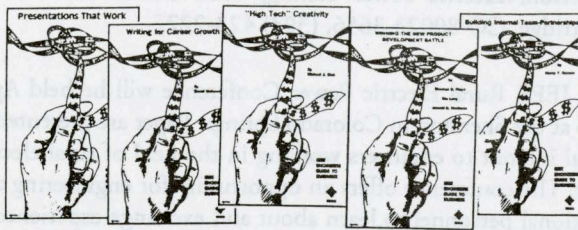
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- June 17 - Las Vegas (SI Only)
- May 27 - Pocatello
- July 17 - Denver

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Denver Section

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Nominations H. Paul Meisel, MagneTek Corp. Automation Technologies, 673-9930
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