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 makes 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 a 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 AIEEE, the 10 last chairmen of the Denver Section AIEEE were H.F. Gidlund, W.A. Morgan Arlie Paige, Max Kight, O.P. Settles, H.F. 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

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**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 Barrus Evolution of Programmable Logic Devices

**Agenda:** Simple PLDs, complex PLDs, FPGAAs & Xilinx Product line

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**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.J. Tharatski University of Colorado & Wave Propagation Labs. NOAA

---

**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 Hilt (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-Ming Joukows Georgia Institute of Technology Current President of Atlanta LEOS Chapter

**Subject:** Optoelectronics

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**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 Warden, Gorilla Marketing Incorporated "Unique Selling Proposition"

**RSVP:** Tim Davis, 303-466-1117, or email to tmdavis@tcgcom.com

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**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, (TOA) Denver, call (303) 860-6125

8 Spring Conference of Society Technical Communication (STGC), "Mapping the Information Highway", Call Mark Lee, (303) 673-2043 (w) or 646-8391 (h)

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

10-12 IEEE Region 5 Conference, Colo. Springs, Call John Reithn, (719) 598-0310 or Steve Rogers, (719) 527-2250, or Charles Wright, (303) 253-5553

10-15 13th IEEE/PES Transmission & Distribution Conference & Exposition, Chicago, IL, Call the IEEE


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


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- Elenor Berr- nuth, 803 Eman, Fort Morgan, CO 80701


**May**

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

4-5 Rocky Mt. Technology Expo (ERAISA) Denver, CO, Dave Hiltu, (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) 231-1840

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**The Event Horizon**

**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) 463-2551

19-22 Device Research Conference, Univ. of Colo., Boulder, Joseph C. Campbell, (512) 471-9669

21-25 Precision Electromagnetic Measurements, Boulder, Call for papers, Gwen E. Bennett 497-5295, info Fred McGahan, 497-3266

**September**

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

28-29 T&D Maintenance Management, Colorado Springs, Mark Swan, (719) 636-5500

**October**

7 UTC Fall Technical Conference, Ft. Collins, Mike Schmitt, 291-9269

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

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

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

25-27 NRECA, 94 Regional Meeting, Denver (National Rural Electric Cooperative) Mary Smallwood, (202) 857-5553

**November**

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

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**Years to Come...**

January - 1995

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


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) 233-0223

**April 1994**

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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/CAID, RF, PCs and all aspects of engineering. Seeking hands-on Product Design and Management position in Boulder area. (F11W05)

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 MSCE 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 problems. (F09Q01)

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)

**Positions Available**

**Senior Systems Engineer.** EE, Ph.D. or 5 years experience or MS and 10 years experience required. Must have direct experience in spread spectrum communications systems design, analysis, simulation and test. Must have strong background in DSP and tracking llo algorithms, CAT, MATLAB, and hardware experience desirable. GPS and navigation experience a plus. Jody or Bill at (719) 481-4877

**Real-Time Software Engineer.** MSEE/CS and 3 years experience or equivalent. Must have direct experience with real-time applications on PC and DSP platforms. Interim, DMA, ISA, C programming experience required. Communications, controls, and DSP experience also required. Digital hardware, GUI, spread spectrum and navigation background desirable. Receiver design a plus. Jody or Bill at (719) 481-4877.

**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 interfac ing 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 Mical, (804) 827-9010, FAX (804) 827-9081.

**Project Manager, Power Supply Planning.** Electrical Engineer, salary range $42, 276-$65,761, a minimum of five years experience. Must have excellent ability in transmission planning, load flow studies, marketing, computer skills, proposal preparation, Knowledge/experience with Cape-oil and municipalities, power pools, inventor-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, Parasol Reflector Design Engineer.** High Voltage Department Manager. Chassis and Auto-Insertion Area Chief Engineer. Synchronous Generators Electrical Engineer. (Manufacturing AC & DC Drives).

For more information, call Brenda S. Coleman, 1-800-631-5627.

**Wireless Engineer.** Engineer to implement PimNet Control Language (PCL) in micro-processors. Position is a two year assignment overseas (South Korea) with free housing and offers tax benefits. Contact Larry Lester, (1800) 874-8658.

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**Attention!**

Something 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) has 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, 7770 East Belleview 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 disturbances, system-level EMI, medical electronics, test facilities, instrumentation and standards. The authors should submit a title and a short abstract by May 1, 1994 to Robert F. Germain, c/o Hancy Orr 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 printer 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 Sara-beth Mohnihan, 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’ 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 80033-3656, (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) 636-2385.

* NIST/MD-American Manufacturing Technology Center (MAMTC), Colorado State University, Fort Collins, is a non-profit organization with the mission of improving manufacturing competitiveness. It 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 (RMUUG) 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 ac5510@fenet.r.huc.colorado.edu or leave a message at 447-5475. There is an email mailing list setup for the group. Simply send an email to majordomo@csun.org with the message “subscribe rmuug” in the body.

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