

# RockIEEE Overlook

September 1993



John Tary, Editor/Publisher  
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## Chapters

EMC, Chairman R.E. (Ev) Evans  
R.A. Mayes Co. 761-9447  
Vice Chair. George Trejo  
350-4113  
Sec/Treas. Eric Evans, 761-944

EMB, Chairman Jim Heller  
Cochlear Corp. 790-9010  
Past Chair. Darrell Jones,  
270-8552

AP/MTT/GRS, Zoya B. Popovic  
Univ. of Colo, 492-0373  
V. Chair, Richard Geyer 497-5852  
**Meeting: Joint Magnetics Chap.  
Sept. 22 - STC, Louisville**

VT/COM, Chair, Mark Schriver  
Forefront Eng. Corp. 730-6348  
V. Chair. Dave Illiff 347-1942  
Treas. Lee Castellion 229-6540  
**Meeting: Sept. 9 - Boulder**  
**Meeting: Oct 14, - DIA**  
**Meeting: Nov 11 - Boulder**

C/IT, Chairman Bryce Chapman  
Storage Tek, 673-4762  
VC Shadzad Bhatti, 682-6664  
**Meeting: Sept. 30 - STC  
Longmont**

LEOS, Chairman Allan Mickelson  
Univ. of Colo., 492-7539  
VC Bob Feuerstein, 492-7077  
Sec/Treas Kevin Keilbach  
**Meeting: Sept. 9, NIST  
Boulder**

PE/IA, Chairman Brian S. Moreau  
Black & Veatch 671-4270  
VC Phil Goldhammer, STC,  
673-5342  
Sec. Jim Houlihan, 661-9373  
**Meeting: Sept. 17, Tour of  
NORAD Cheyenne Mtn, Colo.  
Sprgs**

MAG, Chairman Dr. Richard Dee  
Storage Tek, 673-3976  
Sec/Treas. Ken Franzel 673-3987  
**Meeting: Joint AP/MTT/GRS  
Sept. 22, Louisville .**

PE (Montrose) Kenneth McBryde  
P.O. Box 906, Montrose, CO  
81401 (303) 249-4501

Joint R & Pikes Peak Section  
Chairman Gene Bagenstos  
(719) 528-3715, V Chair Rick  
Follenwieder 673-4361, Treas  
John Adams 530-6503  
**Meeting: Sept. 2, East Denver**  
**\*Meeting: Oct. 7, SE Denver**  
**Symposium: Nov. 3-6 So Den.**  
**Holiday Social: Dec. (?)**  
**\*RSVP by Sept. 30**

## Denver Section

Chairman, Darrell Sabatka  
Public Service Co. of Colorado  
329-1547  
Vice Chairmen  
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Sr. Past Chair. Gary Petersen

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*Newsletter of the Institute of  
Electrical and Electronics  
Engineers, Denver Section*

*Sept. issue, 4900 copies printed  
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3, Feb. 4, Mar. 4 and Apr. 1*

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THE UNIVERSITY OF NEW MEXICO  
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Workshop

December 13-15, 1993, in San Antonio, Texas

All participants will receive Fuzzy Logic software (valued at \$600.00)

Call the College of Engineering For Information

**1-800-453-3940**

## Metropolitan State College of Denver

AUTUMN 1993

### ENGINEER-IN-TRAINING (E.I.T.) REFRESHER COURSE

An E.I.T. review course will be offered by Metropolitan State College of Denver on seven Saturday mornings 0800-1200 from 11 September to 23 October 1993. The reviews will be held in South Classroom Building Room 107 on the Auraria Campus.

Advance registration is advisable to insure a place in the course. Call 303-556-2976 or 2977, or mail the form below.

#### Tentative Autumn '93 E.I.T. Review Schedule

Date	Topic	Time	Points*	Reviewer
SEP 11	Eng. Economics	0800-1200	31	M. Ralston, P.E.
18	Mathematics/Applied Math	0800-1200	60	K. Rager, Ph.D.
25	Chemistry	0800-1000	14	J. Cummins, Ph.D.
	Dynamics	1015-1215	14	H. Zimbelman, PE
OCT 2	Statics	0800-1200	54	G. Rowley, P.E.
9	Mech. Materials	0800-1200	25	G. Davis, P.E.
16	Thermo/Fluid Mechanics	0800-1200	48	H. Paynter, P.E.
23	Elec. Circuits	0800-1200	34	D. Ellerbruch, P.E.
Total				280

\*Total points. There are 140 one-point-questions in the E.I.T. morning - four-hour session, and 70 two-point-questions in the afternoon - four-hour session.

#### MSCD ENGINEER-IN-TRAINING REFRESHER COURSE

Autumn 1993 Registration Form - Donation \$125.00 payable to Engineering Technology Program (includes a copy of Michael R. Lindeburg's E.I.T. Reference Manual, 7th Ed.).

NAME \_\_\_\_\_ PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_  
(Number and Street) (City and State) (Zip)

Mail to: Metropolitan State College of Denver, E.I.T. Refresher Course, Campus Box 90, P. O. Box 173362, Denver, CO 80217-3362.

#### The Chairperson's Corner

by Darrell Sabatka

Everyone is getting their vacation time out of the way and the kids are starting back to school. The Executive Board vacations in the summer also but we are rested and ready to serve the membership the rest of the year.

Unfortunately, one board member will not be back with us. Tom Gibbs, our Section Chairperson resigned due to personal circumstances. Tom lead us well and his leadership will be missed. The Section by-laws place the senior vice chairperson in the chairman roll for the remainder of the year. I look forward to serving the membership. I am fortunate to have capable leaders on the Executive Board to help me. All of us want to hear your ideas and suggestions. Please call us.

Increasing our membership and serving the members needs are two of my goals for the section. Diana Lindstrom and I attended the Sections Congress this summer and want to implement some of the things we learned. You will read more about the Sections Congress in this and following issues.

#### Treasurer's News Flash

By Diana L. Lindstrom

This summer IEEE Headquarters sent the Section a letter about the Sales Tax Exemption status of the IEEE. The IRS officially approved IEEE as "an organization exempt from federal income taxes under Section 501 (1)(3) of the Internal Revenue Code" on March 24, 1993.

What does this mean? First, individuals can now made tax deductible contributions to the IEEE.

Second, some states will exempt payment of state sales tax on purchases made by IEEE entities (Sections, Sub-sections, Society Chapters, etc.).

The bad news for our Section is that neither South Dakota nor Nebraska offer the sales tax exemption. Both Colorado and Wyoming offer the exemption on the condition that IEEE collect sales tax on everything it sell in these two states. IEEE Headquarters believes that the administrative costs of collection state sales tax outweighs the benefits of the exemption. The Denver Section has requested that headquarters personnel take another look at our Section. We believe that the savings for conferences and seminars could pay for the costs of administering the collection of sales tax in Colorado.

We want to know what you want. Are you willing to pay sales tax on books, papers, magazines and other merchandize purchased from IEEE? Please call Diana Lindstrom at 422-9374 to express your opinion. Feel free to leave a message on her answering machine if she's not there. The deadline for this survey is November 3, 1993

#### Calendar of Meeting

Monday, Sept. 2 - Networking for Exchange of Reliability Information

##### Joint Reliability Chapter & Pikes Peak Section

6:30 PM (Refreshments) Holiday Inn - I-70 and Chambers Road, Denver

Thursday, Sept. 9 -Boulder Regional Communications

##### VT/COM Chapter

Tour and talk on E-911, call routing, computer aided dispatching, automatic automatic paging and the radio system for Boulder County

Speaker: Ken Replogle, Technical System Manager Boulder Co. Sheriff Dept.

Dinner @ 6:00 PM, Armadillo, 30th and Walnut, Boulder

Talk and Tour about 7:15/7:30 PM More info, call Dave Iliff, 347-1942

Thursday, Sept. 9 -"Magneto-Optic Magnetic Fields Sensor Research"

##### LEOS

Speaker Dr. Merritt Deeter.

7:30 PM, Room 1107, NIST, 325 Broadway, Boulder

Friday, Sept. 17

Tour of NORAD, Cheyenne Mtn, Colorado Springs PE/IA

7:00 PM @ the parking lot to board bus- contact Barbara at Peterson Co.

telephone 388-6322 by Tuesday, August 31 for reservations. (See Map)

Wed. Sept. 22

- "High Frequency Magnetic Excitations-Resonance, Spin-Wave Instability and Solitons",

##### Joint MAP/AP/MTT/GRS

Speaker: Dr. Carl E. Patton, IEEE Distinguished Lecturer 1992-93

Professor of Physics, Colorado State University, Fort Collins

5:30 PM @ Central Support Conference Room, Building 8

Storage Technology Corporation, 2270 S. 88th Street, Louisville

Note: Please stop at the STC Visitor Center and pick up a badge.

Expect "normal" meeting date on the third Wednesday of the month from September 1993 thru June of 1994.

Wed. Sept. 29

-Denver Section Board Meeting (Info, call Marilyn Peterson, 329-1615)

6:00 PM, Public Service Company of Colorado, 5525 E. 38th Ave., Denver

Thurs. Sept. 30

- "What's New in Computer Architecture"

##### Joint C/IT

Dr. Yale N. Patt, IEEE Computer Society Distinguished Lecturer and with EECS Dept. at the University of Michigan

Topics to be discussed include Exploiting concurrency in the instruction stream

Find out what Superscaler and Superpipelined mean. Also Dr. Patt will talk

about the move from 2nd to 3rd generation RISC, Multi-processing systems,

cache consistency, interconnection schemes, bus designs and I/O organization

3:00-5:00 PM, Steamboat Mtn Conference Room, Storage Tek, Longmont

Reservation requested, call Shah Bhatti, 682-6664, Attendees must sign and

receive an access badge at the Visitor Center, Longmont.

Thurs. Oct 7

"An Evening with Einstein"

##### Joint Reliability Chapter & Pikes Peak Section

The speaker is for all outward appearance is "The famous Albert Einstein"

6:30 PM, Dinner Marriott Southeast, I-25 & Hampden, Denver

\*\*\*\*\* No dinner charge to Reliability Society members, others \$20.00\*\*\*\*\*

Please RSVP by Sept. 30 to one of the chapter officers

Thurs. Oct 14

-Radar, Telecommunications and Navigation Systems at the Denver

International Airport (Federal Aviation Agency) VT/COM Chapter

For more information see next month's Overlook or call Mark Schriver

Wed/Th Oct 20/21

-LANfair Denver Contact Mark Cramer (303) 771-2000

Wed-Sun Nov 3-6

-The Fourth International Symposium on Software Reliability Engineering

ISSRE '93, Denver Hilton South, 7801 E. Orchard Road, Englewood, 80111

General Chairman, Yashwant K. Malalya, Computer Science Dept. CSU

Fort Collins, CO 80523, FAX (303) 491-6699



## SECTIONS' CONGRESS 1993

### REPORT

The Sections' Congress 1993 was held in San Juan, Puerto Rico, from July 1 through July 4. The two officers from the Denver Section who attended were Darrell Sabatka (Sr. Vice Chair) and Diana Lindstrom (Treasurer). The first Sections' Congress was held in 1984 and proved to be invaluable to the IEEE. It is the one occasion where the IEEE grassroots leadership from all 10 Regions has an opportunity to network and learn from each other, to increase their leadership skills and working knowledge of the IEEE, and to express their opinions and concerns in the form of Congress outcomes which are used by the IEEE boards to steer the Institute into the future.

We don't have actual attendance numbers yet, but it was estimated that about 400 Section officers from all over the world attended. There were about 200 partners who also attended. The local committee in San Juan did a wonderful job in making the arrangements for the meetings and social events. The Opening Ceremony speaker was the Honorable Baltasar Corrada del Rio, Secretary of State and Acting Governor of Puerto Rico.

The first plenary session, Friday morning, was called Section Management/Operations in which we heard how IEEE headquarters staff is going through a continuing quality program. Then we heard about TQM inside and outside IEEE.

The second plenary was after lunch on Friday. It covered Sections/Societies, Technology, and Professional Concerns. We heard about the coming challenges and opportunities in the field of communications. We also heard about what has to be done to maintain the position of IEEE in the international Standards arena.

The third plenary was after breakfast on Saturday and the speaker told us about networking as a way to earn money for Sections/Societies. This plenary was entitled "Section Management/Activities."

After each plenary were the "breakout" sessions. Some of these sessions were Workshops (W) and some were Tutorials (T). The following is a list of sessions attended by the two delegates.

Darrell Sabatka

Diana Lindstrom

Society Support for Chapters(T)

ROOT Software  
Demonstration

Student Activities and  
Transition to Full Membership (W)

Section Newsletter (T)

Employment Concerns (W)

Membership Development and  
Retention (W)

Planning: The Section/Chapter  
in the Year to Come (T)

Leadership Development (T)

Concerns of the Individual  
Member (W)

Employer Support of  
Sections (W)

Leadership Development (T)

E-mail Software (T)

Membership Data Diskette  
Software (T)

Entrepreneurial Projects  
(W)

Volunteer Recruitment (W)

Program Development (T)

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**. 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 69 kV to 500 kV. Paralegal certificate. 1 year litigation experience. Vietnam Era Veteran. Computers since 1975. (M26L01)

1992 BSEE Graduate 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)

An innovative experienced, solution oriented, technically current individual. Experienced in processing control/monitoring, 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 PLCs, 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 50 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 Ergonomics. 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 marketing, 1 year project engineering and a proactive 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)



# SPECIAL INTRODUCTORY OFFER

The AWS Precision Joining Center\* announces an introductory offer of

## *Precision Process Controls and Measurements*

an industrial instrumentation and controls training course. The course covers the fundamentals of sensors, data acquisition, measurements and control. This is an **excellent** introduction to the principles of data acquisition, control, calibration, and measurements found in many industrial environments today. Previous experience in welding processes is not necessary to attend this course. Numerous demonstrations will be used to relate the applicable theory to actual measurement conditions. Upon successful completion of the course, 4 Continuing Education Units (CEU's) will be awarded to the student.

### MAJOR TOPICS TO BE COVERED

Applicable electrical principles review	High current measurements
Instrumentation terminology	Low resistance measurements
Calibration basics - system calibration vs. meter only calibration	Static vs. dynamic calibrations and measurements
Understanding instrumentation performance specifications	Data acquisition - data loggers to computerized systems
Introduction to tolerances and error analysis	Overview of Welding power supply technologies
Traceability of measurements - its strengths & weaknesses	3 Common Welding Processes & Parameters requiring measurement & control
Applicable sensor technologies	

### WHO SHOULD ATTEND:

Any technician or engineer with an interest in process controls, data acquisition, sensor technologies, or measurements will find this course of benefit. The course is theoretical only to the extent necessary to cover critical measurement issues.

### WHEN:

Classes will be held each Monday from 5pm to 9pm for 10 weeks beginning October 11, 1993, and ending December 20, 1993. Class **will not** be held on October 25, 1993.

### WHERE:

The course will be held at the PJC training center located at 12401 W. 49th Ave., Wheat Ridge, CO. See map on the back of this announcement.

### COST:

Cost for this special offer is \$210. (Note: the standard cost for this course is \$1295; the course is presented as a 5 day, 40 hour seminar.) This special offer includes a student workbook created especially for this course. Optional texts will be suggested but are not required for the course.

**FOR REGISTRATION INFORMATION AND DIRECTIONS SEE REVERSE SIDE**



American Welding Society

Precision  
Joining  
Center

\* The AWS Precision Joining Center (PJC) is a technology transfer center providing training in advanced welding technologies and associated automation. The PJC is a joint venture with the American Welding Society, the US Department of Energy, and EG&G Rocky Flats.



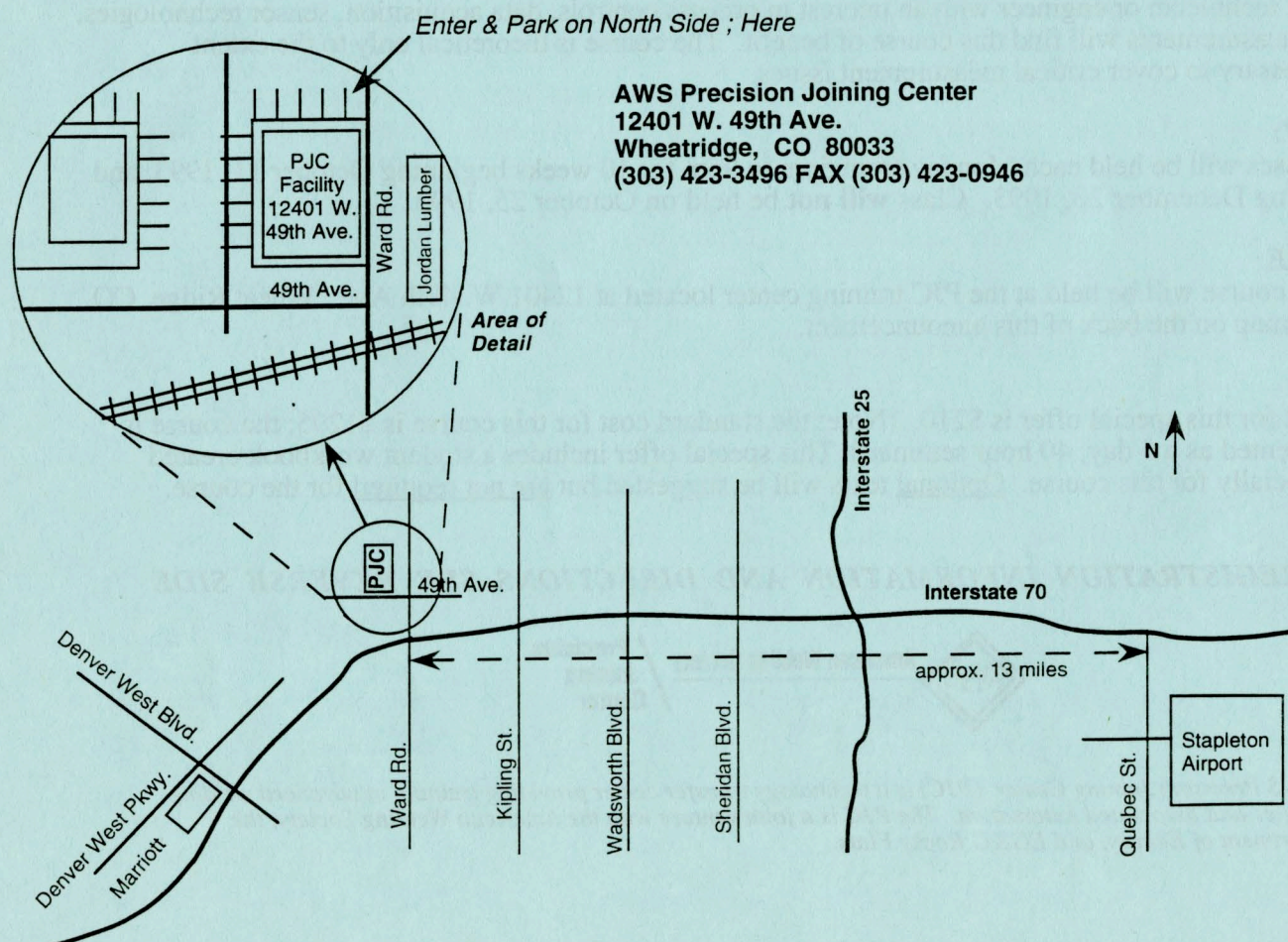
#### REGISTRATION:

To register for this introductory offer, contact the AWS Education headquarters by calling 1-800-443-9353, Ext. 248. When enrolling for this course, please mention that this is the **SPECIAL INTRODUCTORY OFFER** for the **Precision Process Controls and Measurements** course. Enrollment is limited and is on a first come, first serve basis. Early enrollment is encouraged to assure space availability. For specific course content information, please call the instructor at (303)-423-0945, Ext. 18.

#### ABOUT THE INSTRUCTOR:

Dennis Destefan has 16 years experience as an electrical engineer. 12 years of his experience has been in the field of instrumentation and measurements as applied to industrial processes. His industrial work experience involves both practical and theoretical work in instrumentation. His joint work with Sandia National Labs and the National Bureau of Standards (now the National Institute of Standards and Technology) resulted in the development of high current measurement standards for pulsed current for welding applications up to 100,000 amps. Dennis has also worked in areas of metrology and facilities engineering. He holds one US patent on micro-ohm resistance measurements. Dennis holds BSEE and ME degrees from the University of Colorado. Dennis is a member of the IEEE. He is presently employed by EG&G Rocky Flats and holds the position of staff instructor at the PJC.

## MAP



Both delegates attended the Region 5 Caucus which lasted about an hour. It was at this time that the Region decided what one area of concern we thought should be addressed by IEEE in the upcoming three years. Region 5 decided that rebates and the formula used to determine them need to be changed so that Sections have more money available to serve members.

On Sunday the primary delegates heard all the concerns from the workshops and caucuses. They voted to prioritize these concerns so that IEEE can address them as action items. The top five actions are listed below.

1. As Sections are the primary interface to members in directly responding to needs and concerns, IEEE should increase support to the Sections in the form of Rebates; in addition, the Rebate formula should include: 1) higher percentage of member dues, 2) meeting activity - Chapter and Section meetings of all types.

2. The self and public image of the engineer can be improved if engineers:

- Educate the public about the importance of their accomplishments,
- Cease to view themselves with negative characterizations, and
- Involve themselves in problems of public policy both as individuals, by communicating with their elected representatives, by writing articles, and through civic activities, and through IEEE by leading responsible public debate on major issues.

IEEE make "enhancing the image of the engineer" one of its major goals - make level of compensation a major metric.

IEEE should take aggressive action to unite all engineering associations worldwide to present a strong image to the public on the role and contributions of engineers in wealth creation and solution of society's problems.

3. Develop a variety of programs to encourage employer support of Sections and volunteers. These could include various levels of recognition, written material showing how Section leadership develops useful skills which improve employee effectiveness, and corporate membership.

4. Increase and improve technical societies' support to local chapters (and Sections) through: 1) rebates granted through local technical activities, 2) support to distinguished lecturers tours, and 3) educational material (video conferences, self study courses, etc.).

5. Update membership diskette to include members' companies (employer address).

In upcoming issues of the RockIEEE Overlook, these and other recommended actions will be discussed. It is the Executive Board's intention to put what Darrell and Diana learned into practice so that our already strong Section can become even stronger and more responsive to members' needs.



## 1993 DENVER SECTION AWARDS

Gary Petersen  
Awards Chairman

The Denver Section held its annual awards dinner on May 12, 1993. Mr. Jim Leonard, Region 5 Director was a guest of the Denver Section.

Guest speaker for the dinner meeting was Arvin Michel of Public Service Company of Colorado. His presentation was entitled "Prudent Response to Low Frequency Magnetic Fields - A Colorado Perspective".

Mr. Leonard was in Denver to present the Region 5 Innovation Award to John Tary, which was presented to John by Region 5 for his innovation and dedication to developing successful conferences in the Region, along with development of a powerplant and steam engine model which has been used for educational purposes at many pre-college science fairs.

The Denver Section also presented awards and wishes to recognize the considerable achievements of the following deserving recipients:

JOHN PEEBLES PROFESSIONAL AWARD --- ALBERT J. ROSA  
SECTION SERVICE AWARD ----- DAVID B. RICHMOND  
OUTSTANDING SOCIETY CHAPTER ----- RELIABILITY CHAPTER  
OUTSTANDING STUDENT BRANCH ----- UNIVERSITY OF DENVER

The four awards named above are presented based on the following criteria:

The Professional Award is presented in the name of John Peebles to an individual who has demonstrated outstanding service and exceptional leadership and influence in the engineering profession. This award is made based on nominations solicited from the Denver Section and other professional societies in the Denver Section geographic area. The recipient of this award receives an engraved walnut and bronze plaque. This award is not necessarily presented each year.

The Section Service Award is presented annually to a Denver Section member who has provided exceptional service to the Denver Section over an extended number of years (usually in excess of 10 years). The recipient of this award receives a check in the amount of \$100 and an engraved walnut and bronze plaque.

The Outstanding Society Chapter and Outstanding Student Branch awards are presented annually to the Society Chapter and Student Branch which have demonstrated exceptional outreach to their members, including number and quality of technical meetings and tutorials, membership increase, student paper contest participation and quality and timeliness of meeting reports. Each of these annual winners receives a check in the amount of \$100 plus an engraved plaque.

The Awards Committee requests input from all Denver Section members and nominations for award candidates are welcome from individuals, Chapters or Professional Societies. If you would like to nominate a candidate for any of these awards, contact the Awards Committee Chair identified on the back of each months OVERLOOK.

Opportunities Greater Denver Chamber of Commerce

This is a calendar of events at the Greater Denver Chamber of Commerce. The Denver Section of IEEE is a silver member and our membership should take advantage of these opportunities. If interested please contact John Tary at 499-2164 for the membership number.

Sept. 2 - Chamber Leads Connection Groups meet daily. Call 620-8067  
Sept. 8 - Good Morning Metro Denver (7-9 a.m.) Meaghan Walsh, 620-8049  
Sept. 9 - Seminars for Successful Growth (8-10 a.m.) Catherine Pyle, 620-8050  
Sept. 21 - New Business Breakfast Club (7:30-9 a.m.) Catherine Pyle, 620-8050  
Oct. 13 - Good Morning Metro Denver (7-9 a.m.) Meaghan Walsh, 620-8049  
Oct. 14 - Seminars for Successful Growth (8-10 a.m.) Catherine Pyle, 620-8050  
Oct. 19 - New Business Breakfast Club (7:30-9 a.m.) Catherine Pyle, 620-8050

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

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

John J. Tary  
Telecommunications

FICHTNER

*Sidetones:* You have a "new kid" doing the RockIEEE Overlook. Congratulations to Zoya Popovic of the University of Colorado and Chairperson of the AP/MTT/GRS Chapter for being named a Presidential Faculty Fellow by NSF. The Georgetown Energy Museum in old Georgetown is open Saturday and Sunday from 12:00 noon till 4:00 PM until September 19. This is a 1906 vintage hydro plant still on line feeding electrical energy into the power grid. Come and see a little of Colorado and Public Service Company of Colorado history. You will enjoy I am sure...A Workshop on Advanced Components for Electric and Hybrid Electric Vehicles, Oct. 27-28 will be held at Gaithersburg, MD. The forum expects to emphasize vehicle systems, energy storage, energy conversion, electric propulsion, control, management and ancillary systems. Contact Alan Cookson NIST, (301) 975-2418 for more information.....We are sorry to learn of the untimely death of John Adams, Chairman of the EMC'89 Conference, Denver. He ran an excellent meeting for the Electromagnetic Compatibility Society and will be missed by friends and co-workers.....If you are looking for employment, be sure to send us a copy of your resume reduced to 30 words for future issues of the Overlook. If you have an opening in your company or know of one, please let us know. Our members welcome any help we can give them.....Appreciate Herb Bass of Herb Bass Associates for the many hours he has given as exhibits chairman for our successful conference program. Thanks to Jim Andrews of Picosecond Pulse Labs, Inc for his support in exhibiting at the many IEEE microwave related technical trade shows. To our ten distant IEEE members in northeastern Wyoming, Harold Hartley, Wayne Lindgren, Thomas Shepherd, Donald Smith, Jon Young, Tom Carlson, Steven Denbar, D.J. Farmer, Robert Bears and Gary Sorenson we send greetings and ask how the section can better serve you. Speaking of Wyoming we are proud to welcome Don Boltz as one of our newest member. Welcome aboard Don and the very best.

# YOUR JOB IS MAKING SURE TECHNOLOGY HELPS THE BOTTOM LINE.

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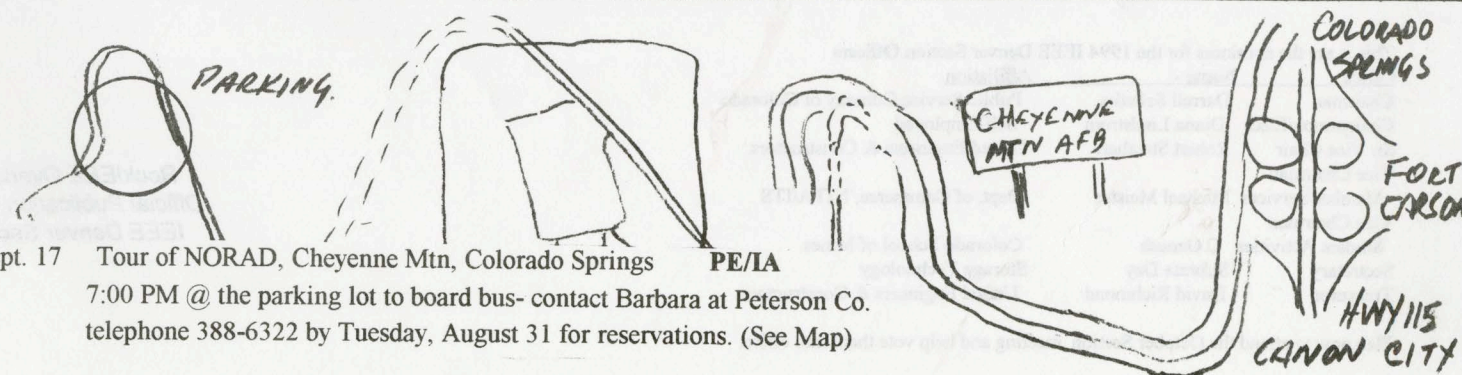
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UNIVERSITY of DENVER  
University College

Friday, Sept. 17 Tour of NORAD, Cheyenne Mtn, Colorado Springs PE/IA  
7:00 PM @ the parking lot to board bus- contact Barbara at Peterson Co.  
telephone 388-6322 by Tuesday, August 31 for reservations. (See Map)





## Denver Section Executive Board

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

FAX  
329-1685

### Vice Chairmen

Senior: Michael J. Foley, Forensic Engineering, Inc., 3535-G. S. Platte River Drive, Denver, CO 80110, (303) 789-0078

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

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

Secretary Dubrata Dey, Storage Technology, 2270 S. 88th Street, Louisville, CO 80028, (303) 673-6494

Treasurer Diana Linstrom, 7377 Arbutus Ct., Arvada, CO 80005, (303) 422-9374

## Executive Committee

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

Conferences John Tary, Tary Associates, (303) 499-2164

Awards Gary Petersen, Public Service Company of Colorado, (303) 571-3626

Student Fund Edward Pitchkolan, (303) 740-2632

Professional/Industrial Liaison Tony Thomas, GE Micro Switch Control, Inc., (303) 792-1673

Nominations H. Paul Meisel, MagneTek Corporation Automation Technologies, (303) 763-9930

Membership David B. Richmond, United Engineers, (303) 843-2465

Pre-College Student Activities Rory Laiho, IBM, (303) 924-3879

Student Branch Activities Dan Greco, (303) 363-7291

## Position Statement of the Denver Section of the Institute of Electrical and Electronics Inc.

on

### Title 12, Professions and occupations, Article 25, Engineers and Surveyors Parts 1 & 2

The Denver Section Executive Board of the Institute and Electronics Engineers, Inc. (IEEE) supports the Colorado Department of Regulatory Agencies recommendation that the legislature eliminates the municipal exemption from the registration law C.R.S. 12-25-103. This resolution was unanimously passed by the IEEE Denver Section Executive Board at a regular board meeting on August 4, 1993. It represents the considered judgment of the Denver Section Executive Board rather than the entire IEEE.

Respectfully submitted by Michael J. Foley, Senior Vice-Chairman, Denver Section

The above is in response to "Sunset Repeal of the PE Exemption to Municipals" and given in testimony on August 23, 1993. If you as a member of IEEE disagree, contact a member of the Section Executive Board or your elected official. This will be voted upon in the fall of 1993.

## The Institute of Electrical and Electronics Engineer



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This is are the nominees for the 1994 IEEE Denver Section Officers

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Treasurer	David Richmond	United Engineers & Constructors

Plan now to attend the October Section meeting and help vote them into office.

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