



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

RockIEEE Overlook

DENVER SECTION

SEPTEMBER 1988

Society Chapter Meetings

CS/ITS - Computer Society/Information Theory Society

Date: Thursday, September 8, 1988

Place: IBM Building at DTC.
4700 S. Syracuse Parkway, Room 102
(I-25 & Belleview, East on Belleview,
North on South Syracuse, 100 yards to
the parking lot on your right, across
the street from the Sheraton.)

Time: 5:30 - 7:30 pm

Speaker: Dug Hedley, IBM

Topic: AIX architecture. (AIX is IBM's
UNIX o/s)

Contact: RSVP requested, Call Sandy Bish,
538-8157, or David Ho, 722-0111.
A light snack will be provided
courtesy of IBM.

EMBS - Engineering in Medicine & Biology Society

Date: Thursday, September 8, 1988

Place: University of Colorado Health
Sciences Center (UCHSC)
9th Ave. and Colorado Blvd.
Room 5442 on the 5th floor bridge
(spans 9th Ave.)

Time: 7:00 pm

Speaker: Matthew F. Baretich, P.E., Ph.D.
Director of Bioengineering at UCHSC

Topic: "What the %*#! is Clinical
Engineering?"
Dr. Baretich will discuss the role
of engineering in clinical medicine
ranging from electrical safety to
clinical reasearch and development.
The presentation will review the
relatively brief history of clinical
engineering and discuss its
potential.

Contact: Darrell N. Jones, 270-8552, or
Matthew F. Baretich - 270-8351.

EMC - Electromagnetic Compatbility

Date: Tuesday, September 20, 1988

Place: Hewlett Packard offices in Inverness
Park

Time: 7:00 pm

Topic: HP Spectrum Analyzer Show

Contact: Andy Anderson, 971-6422 or Bill
Bryant, 977-6578.

Joint VTS/COMSOC - Communications Society/ Vehicular Technology Society

Advance Meeting Notices

Date: October 1988 - MCI
November 1988 - KDVR Channel 31

Contact: John Hardzinski, 977-2224 for more
information.

Joint PES/IAS - Power Engineering Society/
Industry Applications Society

Date: Thursday, September 15, 1988

Place: Brooklyn's, 2644 W. Colfax Avenue

Time: 6:00 pm Social
7:00 pm Dinner (optional @ \$10.00)
8:00 pm Meeting

Speaker: Barry Epstein, President
Current Technology's

Topic: "Power Utilities from a Digital
User's Point of View"
Discussion of the conflicts that
exist between power suppliers and
users of computers, medical equip-
ment, etc.

Contact: Barbara, Peterson Company, 388-6322,
by Monday, September 12, 1988.

Joint Boulder-Denver APS/MTTS/GRS - Antennas
and Propagation, Microwave Theory and
Techniques, Geoscience and Remote Sensing

Date: Thursday, September 15, 1988

Place: National Bureau of Standards
325 Broadway, Boulder, Room 1103

Time: 4:00 - 5:00 pm

Speaker: Dr. David Wright, U.S. Geological
Survey, Denver, Colorado

Topic: "Applications of HF and VHF Radar
Systems to Geophysics".
Radar systems operating at frequen-
cies much lower than used for
satellite remote sensing are seeing
increased use in geophysics from the
surface, in boreholes, and from the
air in environments where resistivi-
ties are high enough to permit sig-
nificant penetration. Applications
will be presented from the Greenland
ice sheet, where ice over 3000 met.
thick was sounded with an airborne
radar system operating at 60 MHz,
from an ice stream in Antarctica, and
from borehole studies in granitic
rock in connection with waste dis-
posal.

Contact: Bob Seeley, 986-6790.



Candidate for Region 5 Director-Elect, 1989

John Martin, who has been an active member of the Denver Section for 42 years, is currently a candidate for Region 5 Director-Elect 1989. Your Denver Section Officers ask that you support John in his candidacy and particularly that you vote for him. Election ballots will be mailed from IEEE Headquarters by Sept. 1, 1988. Since the other candidate is from Texas, and Texas has many more members than Colorado, a large proportion of Denver Section members must vote for John if he is to be elected.

In May 1988, the Denver Section named John the recipient of its 1988 Section Service Award in recognition of his many years of service to the Section. He is currently Chairman of the Professional/Industrial Liason Committee of the Section. Also, he is the West Area Chairman for Region 5. The September issue of THE INSTITUTE will contain complete biographical information on John and his statement of candidacy along with those of other candidates.

John retired from the Public Service Company of Colorado in 1985 after 37 years of service. At the time of his retirement, he was Manager of Systems Engineering - Electrical Dept. He is a registered Professional Engineer in Colorado and Wyoming. He served on the Colorado State Board of Registration for Professional Engineers 1969-77. Since retiring, he has consulted on proposed co-generation and small industrial electrical systems.

Chairman's Message
by Mike Foley

Welcome back!

It seems the three months that the RockIEEE Overlook is not published go by more quickly each year.

At the May 1988 Section Awards Banquet, your Section officers for 1989 were elected. They are:

Chairman: Keith Henderson, EIT Power-Test
Sr. Vice Chairman: Gordon Lee, Colorado State University
Vice Chairman Student Activities:
Don Cottrell, University of Denver
Vice Chairman Members Services: Gary
A. Petersen, United Engineers &
Constructors, Stearns-Roger Division

Secretary: John R. Reesy, Public Service
Company of Colorado
Treasurer: J.A. (Tony) Thomas, Automatic
Switch Company.

These people will be in the officer-elect position through 1988, and will assume their newly elected positions on January 1, 1989.

The Outstanding Chapter of the 1987-1988 year was the one with the longest name, the Joint Antenna and Propagation/Microwave Theory and Techniques/Geoscience and Remote Sensing Societies Chapter (APP/MTT/GRS) under the leadership of Hussain Haddad of Ball Aerospace Systems Division - Congratulations.

The outstanding Student Chapter was the South Dakota School of Mines and Technology. To the students - keep up the great work.

PES/IAS Tentative Meeting Schedule

October 20, 1988 - Tour of Jones Intercable
November 17, 1988 - Gas Insulated Substation,
Public Service Company
January 19, 1989 - AC Variable Speed Drives,
Reliance
February 16, 1989 - NEC - Cohanges, Al
Horn
March 16, 1989 - Co-Generation Panel
Discussion
April 12, 1989 - Motor Starting, Jackson
Fuller (Joint with Denver
Section
May 18, 1989 - Micro-Processor Based
Distance Relaying

Tutorial

February 11 & 18

Transformer/Induction Motors, Pankaj Sen

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	One time	Multiple
Business Card	\$ 25/mo.	\$ 20/mo.
1/8 page	\$ 60/mo.	\$ 50/mo.
1/4 page	\$ 150/mo.	\$ 130/mo.
1/2 page	\$ 250/mo.	\$ 225/mo.
Full page	\$ 400/mo.	\$ 360/mo.

The RockIEEE Overlook is published nine times per year, September through May.

Lawrence M. Robertson

Lawrence M. Robertson (LF), AIEE Denver Section Chairman 1941-42, died of cancer July 23 at the age of 88.

Robbie was active in AIEE and IEEE at both the Section and National levels for more than 48 years. He was a National Vice President of AIEE 1945-47. He was a member of the 14 man committee on the merger of AIEE and IRE to form the IEEE, in 1962. In 1945 he was elected a Fellow of the Institute. In 1963 he received the prestigious William M. Habirshaw Award of IEEE for his studies of high voltage transmission at high altitudes. Robbie published more than 80 technical papers reporting on his work and studies.

Robbie received a B.S. degree with honors in electrical engineering from the University of Colorado in 1922. He also earned a M.S. degree in electrical engineering in 1938 from the University of Colorado and a Doctor of Engineering degree 1955. In addition, he received a law degree from Westminster Law School in 1930.

Robbie was employed by the Public Service Company of Colorado for 46 years prior to his retirement in 1968. He retired as Vice President of Engineering in the Electric

Department. After retiring from PSCO, he provided consulting engineering services on 18 projects.

In addition to his IEEE activities, Robbie was a Registered Professional Engineer in six states and a Licensed Land Surveyor in Colorado and Wyoming. He served on the Colorado State Board of Examiners for Engineers and Land Surveyors for twelve years and was its chairman for nine. He was a past president of both the Colorado Engineering Council and the Colorado Society of Engineers. Also, he was a Life Member of the Rocky Mountain Electrical League.

He was a member of Tau Beta Pi, Sigma Tau and Eta Kappa Nu honorary engineering fraternities. He belonged to the Sigma Delta Kappa, honorary legal fraternity, and to Sigma Xi, the Scientific Research Society of North America.

Memorial contributions in his name may be made to the Department of Electrical Engineering at the University of Colorado, College of Engineering and Applied Science, Campus Box 425, Boulder, CO 80309.

John Martin received the Section Service Award for his many years of service to the Denver Section as a past chairman and his activities in the PES/IAS chapter and as our current Professional/Industrial Liaison - Congratulations.

Mr. John D. Peebles Professional Award was presented to Mr. George Morgenthaler for his leadership in academic and industry management and for his most recent efforts in leading the Governor's Task Force to bring the SSC project to Colorado.

The Denver Section has planned several meetings for the coming months - watch the RockIEEE Overlook for details. On September 15th an Industry Executive Luncheon will host IEEE leaders and local industry management to learn how IEEE can better serve their companies and IEEE members.

Lawrence M. (Robie) Robertson, Past Chairman of the Denver Section, passed away in July. Robie's many contributions to our profession are enumerated in an article found elsewhere in this issue. Those who knew Robie will remember his sharp wit and understanding.

Participation in chapter and section activities is up to YOU! Make the commitment to attend several chapter or section meetings - you just may sharpen or broaden your technical understanding of the various technologies you work with every day. It's up to YOU!

Approval Voting
by Gary Petersen

All IEEE members should be aware of a change in the method of voting in IEEE elections. The "approval plurality" voting system will be inaugurated for the fall 1988 election of IEEE officers.

IEEE has joined several other professional societies in adopting Approval Voting in order to provide members with greater flexibility in expressing their preferences. Approval voting permits you to cast one vote for each candidate you approve of or find acceptable. Each vote counts equally, and the candidate with the most votes (i.e. approval) wins.

If you approve of all candidates, you may vote for all. If you approve of none, you may vote for none. A vote for all or none of the candidates may express your view, but it will not affect the outcome.

To have the greatest influence in the election, you should generally vote, as nearly as possible, for half of the candidates. In a two-candidate contest for one office, you should vote for one. In a three-candidate contest for one office, votes for one or two candidates should be equally effective. Your decision to vote for one or two candidates should be determined by whether you perceive your first choice to be much better than the other two, or your first two choices to be much better than the third.

In a four-candidate contest for one office, a vote for your top two choices will generally have the greatest influence on the outcome. However, if you believe your first-choice candidate is much better qualified than the other three, you may choose to vote for only one. Similarly, if you believe each of your first three choices is much better qualified than your last choice, you may choose to vote for three.

There is an article in the June 1988 issue of THE INSTITUTE which gives additional reasons for the change to approval voting.

IEEE's continuing success depends on the quality of the leaders elected by its members. Approval voting gives you greater flexibility to express your views. Please exercise your voting privilege thoughtfully.

1989 IEEE Aerospace Applications Conference

February 5-10, 1989

Sponsor: IEEE Los Angeles, South Bay Section

Place: Breckenridge, Colorado

Topics: Systems Concept and Management
Aerospace Electronics
Satellite Applications
Microwave and Millimeter Technology
Computer Systems & Software

Contact: Mr. Leo A. Mallette, Hughes Aircraft
MS: Bldg R-10, A9026
P.O. Box 92919, Los Angeles CA 90009
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RockIEEE Overlook

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THE MONTH AT A GLANCE

August 31
Section Executive Board Meeting

September 7
Section Executive Committee Meeting

September 8
EMBS Meeting
CS/ITS Meeting

September 15
APS/MTTS/GRS Meeting
Joint PES/IAS Meeting
Industry Executive Luncheon

September 20
EMC Meeting

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