



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

RockIEEE Overlook

DENVER SECTION

NOVEMBER 1988

Society Chapter Meetings

Joint VTS/COMSOC - Vehicular Technology/ Communications Societies

Date: Wednesday, December 7, 1988
Place: KDVR Channel 31, Wazee & I-25
Time: 6:00 pm - Social at the Tivoli
6:30 pm - Dinner
8:00 pm - Program
Speaker: Steve Coulam, Director of Engineering and Technical Operations
Topic: Tour of the studio.
Contact: Reservations requested. Call John Hardzinski, 977-2224 (w), 693-2198 (h) or Ken Shugg, 977-2226.

EMBS - Engineering in Medicine & Biology and CS/ITS - Computer/Information Theory Societies

Date: Thursday, November 17, 1988
Place: University of Colorado Health Sciences Center, 9th Ave. and Colorado Blvd., Denver.
Room 5442 on 5th Floor Bridge (spans 9th Ave.) Parking on 9th and 10th Ave. and on Hale Pkwy. north of 10th. Pay Lots may be used, but ample free parking is available.
Time: 7:00 pm
Speaker: Ted Wade, Ph.D. Clinical Instructor in the Dept. of Biometrics, UCHSC.
Topic: "Expert Systems without the Expert" Dr. Wade will discuss an Artificial Intelligence/Expert Systems application in fitness management, including the utility of such a system in a weightless (microgravity) environment.
Contact: Seating is limited, please RSVP. Darrell N. Jones, Ph.D., 270-6489 (UCHSC Vascular Surgery Dept.)

Joint PES/IAS - Power Engineering/Industry Applications

Date: Wednesday, November 16, 1988
Place: Brooklyn's, 2644 W. Colfax Ave.
Time: 6:00 pm Social
7:00 pm Dinner (optional @ \$10.00)
8:00 pm Meeting
Speaker: John B. Richards, Professional Engineer, Substation Engineering, Public Service Company of Colorado.
Topic: Public Service Company's new Elati Substation. this substation will use sulfur hexafluoride gas insulated substation (GIS) technology to build a three transformer, 230 kV substation on six city lots. Both 230 kV transmission lines into the substation will be underground. John will discuss the economics of using GIS technology for this substation, and show layouts of a GIS substation and a conventional substation.
Contact: Barbara, Peterson Company, 388-6322, by Monday, October 17, 1988.

EMC - Electro-magnetic Compatibility and

EMC/IM - Joint Electro-magnetic Compatibility/ Instrumentation Measurement

Date: Tuesday, November 15, 1988
Place: Adams Reading Room, Green Center Colorado School of Mines, Golden
Time: 7:00 pm
Speaker: Mike Crawford, NBS
Topic: "Mode Stirred Chamber for Measuring Shielding Effectiveness of Cables and Connectors".
Contact: Andy Anderson, 971-6422, or Bill Bryant, 977-6578.

Date: Tuesday, November 15, 1988
Place: National Bureau of Standards, 325 Broadway, Boulder, Room 1103-1105
Time: 4:00 - 5:00 pm
Speaker: George H. Ludwig, Laboratory for Atmospheric and Space Physics, University of Colorado - Boulder
Topic: "The First Explorers and the Discovery of the Van Allen Belts"
Explorer I (the first U.S. satellite) and its close cousin Explorer III were launched atop the Army's Jupiter-C launch vehicle in early 1958, and their data resulted in the discovery of the Van Allen Radiation Belts. The primary instruments in those satellites were originally designed at the University of Iowa to conduct a totally different scientific experiment and for launch on a different launch vehicle. This lecture traces the development, launch, and use of the family of early Explorer instruments and their role in the most important discovery of the International Geophysical Year. This work was done during that thrilling and heady era when it was still possible for a graduate student to carry not just one but many satellite payloads from concept to fruition during his period of graduate study.
Contact: Bob Seeley, Fortress Electronics, 986-6790.

Please cancel your reservations if you are unable to attend a meeting. No-shows will be responsible for the cost (if any) of dinner.

Chairman's Message
by Mike Foley

The autumn leaves are beginning to fall off the trees as I write this column in early October. The first snowfall will probably have come by the time you read this -- and the year moves on.

This year has been very busy for me -- both with business and IEEE activities. I always feel that there is more to do than time allows, but we do our best. This is my last Chairman's message -- as we usually do not publish in December. It has been my privilege to serve as your Section Chairman and I have enjoyed the support and friendship of the individuals of the Executive Board and Committee this past year. I look ahead to the continuing line of dedicated volunteers who will guide the activities of the Section. Keith Henderson (Chairman-elect) and his board will ensure that 1989 is another successful year for the Section.

My best wishes to you for a joyous upcoming holiday season.

Schedule of Conferences and Meetings					
February 5-10, 1989	Breckenridge	Aerospace Applications	Leo Mallette (213)	334-2909	
May 15-18, 1989	Denver	Cement Industry Conference	Randy Wiley (303)	534-4206	
May 23-25, 1989	Denver	EMC Conference (EMC '89)	John Adams (303)	497-3328	
June 17-21, 1990	Colorado Spgs.	Utilities Communications Council (UTC) Non-IEEE	George Stoll	571-2677	
March-April, 1991	Fort Collins	Region 5 Conference	Gordon Lee (303)	491-5767	
April 28-May 2, 1991	Boulder	PES Substation Com. Mtg.	George Flaig (303)	452-6111	
June 23-27, 1991	Denver	International Communications Conf.	Russ Johnson (303)	796-9100	
Spring, 1992	Denver	Vehicular Technology Conf. (VTC '92)	Don Cottrell (303)	871-3752	
Proposed:	IAS 1994 ...	MILCOM 1990 ...	ITC 1997-2000 ...		
	MTT 1994 ...	ACM/IEEE Design Automation 1994 ...			

Please let us know your personal interest for future conferences and meetings that the Denver Section may host. We need your help, suggestions and comments. Please call John Tary Conference coordinator, Denver Section IEEE, 452-6111 x443 (w), 499-2164 (h).

Since its inception in 1984, the USAB/EAB Precollege Education Committee has desired a stronger presence in the educational community. One idea was an IEEE-sponsored student math and science competition. A competition that would: 1) encourage all students to participate, not just those good at math and science, 2) span the entire K-12 precollege population, and 3) broadly involve our membership as coaches, classroom resources, and judges in school districts. The committee discovered that a student competition fulfilling all three criteria exists, the Science Olympiad. Furthermore, the Science Olympiad is already established, popular, and a rapidly growing competition in which a number of IEEE members are involved.

Members of the IEEE Tucson Section were

involved in a local competition, and the Denver Section helped stage the Colorado Science Olympiad. The idea came from their state science facilitator. The Denver Section bounced the idea by educators and industrial representatives over lunch. They liked it, so the idea became reality. Volunteers came from the IEEE Section, the University of Colorado Student Branch, educators, parents and industry. (Section members solicited help from co-workers.)

Denver Section Note. The Regional Division Professional Award presented by the IEE U.S. Activity Board (USAB) was awarded to Dan Michaels for his outstanding work in establishing the Science Olympiad Program. Dan is one of six individuals who are honored with this professional activities award.

WIN CON 89

WINTER CONVENTION ON AEROSPACE AND ELECTRONIC SYSTEMS

EXPLORES TECHNOLOGY IN THE 21st. CENTURY

FEATURING...

Mr. Anthony Battista (Keynote Speaker), Formerly House Armed Services Committee Staff

Mr. Donald N. Frederickson, Deputy Undersecretary of Defense, Tactical Warfare Programs

Mr. George T. Singley, Director for Army Research and Technology, Assistant Secretary of the Army

Dr. Thomas P. Quinn, Principal Deputy Assistant Secretary of Defense, C3I, Office of the Secretary of Defense

Mr. Ivan Bekey, Special Assistant for System Engineering and Planning Integration, Office of Exploration, NASA Hdqrs.

Dr. Robert D. Diebold, Director, Superconducting, Super Collider Division, U.S. Department of Energy

Dr. Stephen Squires, Computer Systems, Information Science and Technology Office, DARPA (Invited)

Mr. Chester L. Whitehair (Session Chairman), General Manager, Architecture, Planning and Technology Division, The Aerospace Corporation

Mr. Everett D. Greinke (Session Chairman), Deputy Undersecretary of Defense, International Programs and Technology

JANUARY 31 - FEBRUARY 2, 1989

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THE MONTH AT A GLANCE

November 2

Section Executive Committee Meeting

November 15

EMC-EMC/IM Meeting

November 16

PES/IAS Meeting
AP/MTT/GRS Meeting

November 17

EMBS-CS/ITS Meeting

December 7

VTS/COMSOC Meeting

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