IEEE Denver Section Meeting

Superconductivity Research at Colorado State University

An introduction to the theory of Superconductivity will be presented -- what it is and why it is significant to such areas as computer technology and to energy transmission.

Dr. Walajabadj Sampath and co-researcher Sean Riley have repeatedly demonstrated superconductivity at room temperature -- several times for as long as two days. A patent is pending on the Colorado State process for isolating the superconducting material.

Attended this most informative meeting and see a demonstration of the research work in progress at the superconductivity lab. Space will be limited so be sure to call in your reservation now!!.

Date: Wednesday, October 14, 1987
Place: Colorado State University, Fort Collin, Lory Student Center, Room 222 (see map on following page).
Time: 7:30 p.m.
Topic: Superconductivity
Contact: For meeting reservations, call Anita Wanberg, Overlook Coordinator at 220-8042, no later than Friday, October 9th. If you are interested in carpooling to Fort Collins, please indicate when you call in your reservation.

PES/IAS - Power Engineering Society/Industry Applications Society

Date: Thursday, October 15, 1987
Place: Brooklyn's
2644 W. Colfax Ave.
(Just South of McNichols Arena)
Time: 6:00 pm Social
7:00 pm Dinner (Optional @ $16.00)
8:00 pm Program Begins
Speaker: William R. Roemish, PhD., P.E.
Retired Electric Power Branch Chief
Bureau of Reclamation
Topic: "Enhancing Power System Stability". Discussion of basic power system stability principles and methods being used in the western U.S. to enhance stability of the interconnected power system.
Contact: Barbara, Peterson Company, 388-6322, by Monday, October 12, 1987

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

Date: Thursday, October 15, 1987
Place: National Bureau of Standards, 325 Broadway,
Boulder, CO, Room 1107
Time: 4:00 pm - 5:00 pm
Speaker: David C. Chang
Department of Electrical Engineering and Computer Science, University of Colorado, Boulder.
Topic: "MICAD: An NSF Industry/University Cooperative Research Center for Microwave and Millimeter-Wave Computer Aided Design"
Contact: Hussain Haddad, 939-4132, Ball Aerospace Systems Division.

VTS/COM/AES - Vehicular Technology Society/Communications Society/Aerospace and Electronics Systems Society

Not planning a meeting in October, please watch for a meeting notice for November or December.
IEEE Audiovisials Available - FREE

Videotapes, movies and slides are available for your chapter or any organizational presentation. A partial listing of the videotapes available is shown below. Please call Anita Warberg, 220-8042 to request a complete list or more information.

The IEEE programs listed below are available on a free loan basis, unless otherwise noted. Please direct requests to the persons listed. (IEEE office addresses are listed on the reverse side.)

- **THE MIRACLE FORCE**
  (16mm film; 27 mins. Product #120-F)
  Illustrates contributions of electrical and electronics engineering to the welfare of mankind through discussions with IEEE members working in the fields of power, communications, aerospace, and biomedical engineering.
  Contact: Modern Talking Picture Service
  (813) 541-5763 (5000 Park St., St. Petersburg, FL 33709)

- **GENERATIONS OF GIANTS**
  (16mm film or VHS videotape/NTSC, 19 mins.)
  Dramatizes the major characters and events leading to the foundation of electrotechnology. (A filming of live actors.)
  Contact: Barbara Levy - NY office
  (212) 785-7369

- **ENERGY IN PERSPECTIVE**
  (80 35mm slides & audiotape; 25 mins.)
  Examines the causes of the U.S. energy problem, as well as its possible solutions.
  Contact: Valerie Reiter - Wash. office
  (202) 785-0017

- **EDUCATION, THE KEY TO AMERICA'S FUTURE**
  (50 35mm slides & audiotape or VHS videotape/NTSC; 21 mins. Product #000 171-9)
  Depicts the problems existing in math and science education in U.S. elementary and secondary schools, and cities possible solutions.
  Contact: Your Section Chairman or Modern Talking Picture Service
  (813) 541-5763 (5000 Park St., St. Petersburg, FL 33709)

- **THE SECOND CENTURY BEGINS**
  (VHS or Beta videotape/NTSC; 2 hrs.)
  Documents the IEEE Centennial Technical Con- vention and features presentations by some of today's leading engineers and scientists.
  Contact: Sheryl Sorensen - Service Center
  (202) 981-0960 Ext. 285

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**Formation of a New Society**

**Laser & Electro-Optics (LEO) Society of Denver**

A new chapter of the Denver Section of IEEE is being formed for the Laser and Electro-Optics Society. The objective of this chapter will be to provide opportunities among professionals who have interests in the areas of Laser and Electro-Optics, in theoretical, experimental, and measurement aspects. We believe this important, high-technology area is missing in the Denver Section. By forming this new chapter, technical meetings, symposium and short colloquia will be organized to stimulate and exchange ideas in this area. Since, according to the IEEE policy, at least 12 signatures are needed from IEEE members, I would like to receive letters from members who would support forming this new chapter and will have interests. Please write a short note with suggestions about how to make this a successful chapter to:

Professor Anu K. Majumdar
Dept. of Electrical Engineering & Computer Science
University of Colorado at Denver
1100 Fourteenth Street
Campus Box 104
Denver, CO 80209
(303) 556-2554

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**Student Activities Award Winner**

Congratulations to Sadna Ula, University of Wyoming Branch Counselor/Advisor for his outstanding performance during the 1986-87 academic year.
Pre-college Education: Opportunities to Become Involved
by Dan Michaels

There have been many articles written recently documenting the current national crisis in the quality of pre-college math and science education. We need your help to solve this crisis! I have been working hard over the last two years to develop opportunities for our membership to become meaningfully involved in the solution to this crisis.

Today, there are many excellent opportunities to become involved with pre-college education in the Denver section. I’ve listed specific opportunities here and have included the appropriate contact person.

1. Science Olympiad Volunteer - Positions are always available as an organizer or judge in one of the more than 50 events. This state competition is held in early April each year, and volunteers are solicited in the preceding fall. Junior and senior high school form teams of 15 students to compete in the olympiad. Contact: Dan Michaels, 399-5139.

2. Science Olympiad Coach - Often, teachers do not pursue entry into the olympiad in fear of the tax that the preparations demand on extracurricular time. By teaming with the Colorado Alliance for Science - Visiting Scientist Program, it is now possible for engineers to become involved with coaching Science Olympiad teams. Contact: Sarah Wise or Jim Hubbard, 492-6392.

3. COMA - The Colorado Minority Engineering Association has many opportunities for engineering professionals to work with minority students that may be destined for an engineering education. Tutoring, facilities tours, and counseling are some specific needs. Contact: Miguel Garcia, 866-2844.

4. Colorado Alliance for Science, Visiting Scientist Program - The CAS sponsors many programs to strengthen the ties between industry and education. One of these programs, the Visiting Scientist Program, tries to place professionals in lecturing, tutoring, or other classroom situations which enhance the science education of pre-college students. Contact Jim Hubbard, 492-6392.

5. Other competitions - There are many other student competitions in the area which solicit volunteers. These include the science fair, TEAMS, Odyssey of the Mind, MathCounts, etc. Contact: Denver Section PACE Chairman (currently Bill Whiskey, 427-2411) or Dan Michaels 939-5139.

6. Teacher awards - Through the student competitions that our membership supports, outstanding teachers are identified, and presented with an award. Assistance is required at each science or math competition in identifying and rewarding these outstanding teachers. Contact: Gordon Lee, 491-5767; Dan Michaels, 939-5139, or Bill Whiskey, 427-2411.

If you are interested in any of these activities, please call now! Each one can be very fun and rewarding.

First Annual Colorado Electrical & Electronics Convention
by Bill Whiskey

The Denver and Pikes Peak Sections are planning an annual Colorado Electro-Technology Trade Show beginning in 1986. This regional trade show will be known as CECEDON and will take place in October, alternating between Denver and Colorado Springs. Denver Section in the even numbered years. Denver Section in the odd numbered years. In 1986 and 1991, CECEDON will be linked with the IEEE Region 5 Conference in March, and will take place in Colorado Springs (1986) and Fort Collins (1991).

The purpose of CECEDON is to advance the state of knowledge in the fields of electrical and electronics engineering and the related arts and sciences, to demonstrate new electrical and electronics products, systems, and applications.

We are now calling for EXHIBITORS AND SYMPOSIUM PRESENTERS from all areas of the IEEE technical disciplines and from all related societies and sub-chapters. All exhibitors with products related to electro-technology are welcome and all symposium topics which demonstrate and explain the practical uses of these electro-technologies are especially welcome.

For more information on how you and/or your company can become part of this First Annual IEEE CECEDON, call our CECEDON General Manager, Karen Hone at 771-9578.

WE NEED YOUR HELP!!!

The IEEE Executive Board is looking for an editor for the Rock/IEEE Overlook. Contact a member of the executive board if you are interested in the position.
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THE MONTH AT A GLANCE

October 14
Denver Section Meeting

October 15
PES/IAS Meeting
APS/MITTS/GRS Meeting

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