Report
Society Chapters Committee
by Ray Jukkola

The Denver Section Executive Committee is considering the consolidation of several chapters into one large joint chapter and elimination of several inactive chapters. This measure is necessary for several reasons. One major reason is that IEEE Headquarters requires a chapter have a minimum of two meetings per year to stay on the Headquarters active roster for the section to receive funding. Another reason is that the Denver Section would like to have active chapters serving the local IEEE members (you). It is the feeling at the present time that it is necessary to have a few large active joint chapters with similar interests rather than many small inactive chapters. In the future as the chapters become more active and the individual chapter memberships expand, these chapters can become individual chapters again.

The proposed new chapter consolidation will be of the following individual chapters:

Aerospace and Electronics
Instrumentation and Measurements
Vehicular Technology/Communications

The Power Engineering Chapter on the Western Slope is trying to become active again. Ken McBray, Colorado Ute Electric Association is trying to rejuvenate this chapter. One idea that has been presented on the future of this chapter is to make it a joint chapter to serve all the interests of the various type of electrical engineers on the Western Slope (electronics, communications, etc.).

Please call him to offer your assistance and ideas on the future of this chapter.

As IEEE members you have a voice in the activities of the Denver Section and your local chapter. If you don’t agree with this consolidation, let one of the board members know your feelings.

The chapters success depends on the involvement of its members. Become active in your chapter. There are approximately 3500 Denver Section IEEE members. Currently about 105 members (3%) take an active part in any IEEE activities such as regularly attending meetings, or becoming active at the chapter level or section level.

Again, the success of the chapter depends on your involvement! A chapter meeting is a good location to discuss technical items of interest, learn about new companies, products or technology, develop new friends, and find out about possible employment opportunities. Please support your chapter.

Two IEEE members have volunteered to help me with the Society Chapters activities. They are John Richards, Public Service Company, and Fred Jones, Nelson Engineering. The three of us will be assisting the chapter chair persons in numerous activities related to the development of a successful chapter.
Society Chapter Meetings and Information

FRSWQC
Front Range Software Quality Committee of the Reliability Society
Friday, November 8, 1991
2:00 - 4:00 p.m.
Storage Technology, Building 4
Louisville, Colorado

Speaker
Hashwant Malaiya
"Using Neural Networks to Predict Software Reliability"
For more information, call Rick Karich at 673-6223.

Joint VTS/COMSOC
Joint Vehicular Technology and Communications and Aerospace and Electronics Societies
Tuesday, November 12, 1991
Dinner 6:30 p.m., Gringo’s
Program 7:45 p.m.
University of Denver
Department of Engineering

Tour of the new engineering labs and a guest speaker.
Meet for dinner before the meeting at Gringo’s in the University Hills Shopping Center, South Colorado Blvd., and Yale between 6:00 and 6:30 p.m. The meeting and program will begin at 7:45 p.m. at Clarence M. Knutelsen Hall, 2980 S. York, Room K200 (Engineering conference room). Our host will be Jim Schroeder, Assistant Professor of the Department of Engineering.
Contact John Hardzinski, 977-2224 for further information, and if you plan to attend dinner at the restaurant.

CS/ITS
Joint Computer/Information Theory Societies
Friday, November 15, 1991
2:30 p.m.
Storage Technology
Louisville, Colorado
"Automated Cartridge Systems: Robots and Data Storage"
Managing computer data on tape can be time consuming. StorageTek uses robots to automate the storage and retrieval of computer data on tape media. A single robot has access to thousands of tape cartridges for simultaneous data transfers. The system will be demonstrated and questions fielded.
Reservations are required. Please call Bryce Chapman at (303) 673-4762.

Joint PES/IAS
Power Engineering/Industry Applications
Thursday, November 21, 1991
Brooklyn’s Saloon & Restaurant, 572-3999
2644 W. Colfax, Denver (under the viaduct)
6:00 p.m. Social, 7:00 p.m. dinner (optional @ $10)
Student IEEE Members Dinner Free
8:00 p.m. Meeting

Speaker
Brian Moreau, Section Leader, Control & Protection Section, T&I D Division, Black & Veatch
"A PLC Based Reclosing Relay"
Mr. Moreau will discuss the use of a Programmable Logic Controller in a reclosing relay application. He will review other PLC applications in substation control.
Please contact Barbara at Peterson Company, 388-6322, by Monday, November 18, 1991.

Joint MTT/AP/GRS
Microwave Theory and Techniques, Antennas and Propagation, Geoscience and Remote Sensing
Thursday, November 21, 1991
National Institute of Standards and Technology
325 Broadway, Boulder, Room 1107
4:00 - 5:00 p.m.

Speaker
James A. Maslanki
Research Associate Cooperative Institute for Research in Environmental Sciences (CIRES)
University of Colorado, Boulder, Colorado
"Extraction of Sea Ice and Snowcover Information from Passive Microwave Data: Methods and Applications for Climate Research"
Passive microwave imagery acquired by polar-orbiting satellites offer a 13-year record of continuous, global observations at a scale well-suited to climate studies. These data are particularly valuable for polar and high-latitude studies of ice and snow due to the microwave properties of water ice, the temporal and spatial coverage of the sensors, and the relative insensitivity to cloud cover and darkness. A variety of methods have been developed to derive geophysical products from passive microwave data, and the range of applications of these data to climate research continues to expand. In this presentation, the physical basis for extracting sea ice and snowcover information from microwave data is reviewed and new processing schemes are presented. Examples of some typical applications are described, with particular emphasis on the assimilation of passive microwave data and ice and climate models. Finally, the role of these data as part of the planned Earth Observing Systems (EOS) is reviewed.

Please call Ron Vidano at Ball Aerospace, 460-2001 if you have any questions.

Chairman's Message
by Gary A. Petersen
By the time you read this, new officers will have been elected to lead the Denver Section in 1992. Since this is the last issue of the Overlook for 1991, I'd like to take this opportunity to thank all of the Section and Chapter officers who worked hard serving the Denver Section IEEE membership during 1991. It has been my pleasure to work with all of these officers and to have the opportunity to serve the Section this past year.

If you attended a Section or Chapter meeting, technical conference, tutorial, Student Branch activity or if you read the RockyIEEE Overlook, you benefited from the efforts of these officers who volunteered their time to the Denver Section membership. The Denver Section leadership is working hard to see that the Section grows and improves in the ways that best address the needs of the membership. You can help by volunteering your ideas and/or your services so that the Denver Section can better serve all of its members.

Thank you again to all those who helped make 1991 a productive year for the Denver Section, and my best wishes to the new officer for 1992.

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Contact Tony Thomas
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FAX 753-2224
A New Force in Denver
CALL FOR PAPERS
10th Annual
Software Reliability Symposium 1992
June 25 - 26, 1992, Phipps Mansion, Denver, Colorado

Sponsored by the Denver Chapter of the IEEE Reliability Society
In cooperation with the IEEE Computer Society and its Technical Committee on Software Engineering
With support from Storage Technology Corp. and Hewlett-Packard Co.

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Important Dates
Submission Deadline: January 31, 1992
Acceptance: March 31, 1992
Final Version Due: May 1, 1992

Theme: The Development and Assessment of Reliable Software

The Symposium will focus on the interface between software reliability engineering research and the software development and management process. The symposium seeks papers that will promote the development of reliable software, advance the state of the art of software reliability measurement and modeling, and help foster increased interaction between academic and application communities. Papers are invited in the following and related areas:

Methods.
Software Reliability Engineering
Decision Making
Software Safety
Software Defect Detection, Testing and Testability
Software Quality and Reliability Metrics
Software Product Specification

Current Best Practice.
Software Quality and Reliability Assessment
Use of Tools for Developing Reliable Software
Practical Experiences with Software Reliability Models
New and Innovative Uses of Software Reliability Measurement & Modeling

Data Collection and Software Analysis.
Tools
Databases
Evaluation

Accreditation of Software.
Standards & Practices
Legal issues

Management Issues.
Test and Support Costs
Resource Scheduling
Clean-room Approach

You are encouraged to submit research papers or experience reports for inclusion in the symposium program. Research papers should describe new research results relevant to the symposium theme. Experience reports are intended to provide exposure for software reliability professionals of practical experiences in the application of techniques for (1) increasing the reliability of software and for (2) software reliability measurement and modeling. Papers should not have been previously published or be concurrently under review for publication elsewhere.

Five (5) copies of a full paper (not to exceed 5000 words) or an extended abstract should be submitted to one of the Program Co-Chairs. A cover page must include: title, all authors’ names and complete mailing addresses, telephone numbers and email addresses together with a maximum 250 word abstract and keyword list. Identify the author who will present the paper if accepted. All submissions will be reviewed. Accepted papers will be published in the Symposium Proceedings. A special issue of the Journal of Computer and Software Engineering (E.K. Park, Editor) is planned. The special issue will consist of selected papers submitted to this conference. Indicate in your cover letter if you want your paper considered for publication in the special issue.

Satellite Communications
by Timothy Pratt

An exploration of the complete system—from spacecraft to discussion of the atmosphere through which signal pass.


Satellite Communications is IEEE member priced at $199 ($398 non-member). For a full description of the program and complete ordering information, call IEEE today at 1-201-562-4987; Telex: 833233; Fax: 1-201-981-1686.

Or write to:
IEEE Educational Activities
445 Hoes Lane
PO Box 1331
Piscataway, NJ 08855-1331

William D. Whipkey

Receives Citation of Honor

William D. (Bill) Whipkey, Past Chairman of the Denver Section, was recognized by the United States Activities Board during its 1991 PACE Workshop on September 1, 1991, in Philadelphia, PA. Bill was presented the 1991 Citation of Honor for his "long-term efforts on the local, regional, and national level for the betterment of the profession through such activities as PACE and Sections Congress speaker, Careers-Phase II Workshop facilitator and trainer, and pioneer in the development of the Science Olympiad in Denver, Colorado."

Schedule of Conferences and Meetings

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<tr>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
<th>Contact Name</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>October 10-11, 1991</td>
<td>Denver</td>
<td>IEEE Careers Conference</td>
<td>Bill Whipkey</td>
<td>(303) 830-4713</td>
</tr>
<tr>
<td>May 11-13, 1992</td>
<td>Denver</td>
<td>Vehicular Technology Cont. (VTC '92)</td>
<td>Jim Schroeder</td>
<td>(303) 871-3519</td>
</tr>
<tr>
<td>May 11-14, 1992</td>
<td>Denver</td>
<td>Power System Relaying (PES)</td>
<td>John Appleyard</td>
<td>(608) 364-5622</td>
</tr>
<tr>
<td>Sept./Oct. 1994</td>
<td>Denver</td>
<td>IAS Annual Meeting</td>
<td>Paul Meisel</td>
<td>(303) 469-2161</td>
</tr>
<tr>
<td>July, 1996</td>
<td>Denver</td>
<td>PES Summer Meeting</td>
<td>John Barnick</td>
<td>(303) 969-0391</td>
</tr>
<tr>
<td>May 1997</td>
<td>Denver</td>
<td>PES Joint Power Generation</td>
<td>Gary Petersen</td>
<td>(303) 329-1506</td>
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Proposed Conferences and Meetings

ESMO 1996
Sections Congress 1996
Transmission & Distribution 1997
ITC 2000
IEEE Video Programs & Self-Study Courses 1991

Video Tutorials

IEEE Video Tutorials consist of videocassettes usually accompanied by hardcopy material. Each is designed to give you practical "how-to" instruction on important continuing education subjects. Comparable to a conference seminar, Video Tutorials use a minimum of theory and formula derivation and are presented on an advanced undergraduate or graduate level by recognized experts.

For more information on video tutorials, call (908) 562-5499.

Videoconferences

IEEE Videoconferences bring you the world's leading experts on critical topics in computer and engineering. Originally broadcast live via satellite, they provide state-of-the-art information, emphasizing practice, not theory.

The Engineering Skills Assessment Program (ESAP)

The IEEE Educational Activities Board initiated ESAP to help members avoid technical obsolescence and take advantage of new career opportunities, particularly involving fast-moving technologies. Through this program, individual Societies, with support from IEEE Educational Activities, conduct workshops and seminars enabling leading engineers to develop an inventory of skills and knowledge of their specialty. The resulting Field Specific Knowledge Inventory (FSKI) provides the basis for self-administered tests that, in turn, enable engineers to determine whether they have mastered the skills needed for that specialty.

For information, contact B.J. Mirowsky at (908) 562-5487.

Self-Study Courses

IEEE Self-Study Programs offer graduate-level courses in key areas of electro-technology. These multi-media courses are designed in a convenient, self-paced format to allow easy access to knowledge and -- through learning reinforcement -- ensure retention of the subject.

Developed by recognized authorities, each program teaches the real-life processes and applications of current technology. Individual components of these courses are available upon request. For more information about these courses, call (908) 562-5498.
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Educational Activities - Pankaj K. Sen, EE & CS Dept., Univ. of CO Denver, 556-2872, 556-2685
Conferences - John Tary, Tri-State Generation and Transmission Association, 452-6111
Awards - Keith Henderson, Electric Power Testing, 650-2218
Student Fund - Diana Lindstrom, 422-9374

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The Month at a Glance

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