Chairman's Corner

by Paul Meisel

The Fall IEEE meeting schedules are being established and the meetings are going to be technically strong.

SEMINAR

With this issue, we are announcing the Denver Section Employment Assistance Seminar which will be held on Saturday, October 17. This seminar is especially important to the unemployed, the under-employed, and those contemplating changes. One thing which we learned while organizing this conference is that there is no stigma attached to being unemployed.

Many members are technically sound, but when contracts are completed and other contracts are not available to take their place, unemployment results. We hope to provide to our members the knowledge to evaluate their ability, likes and dislikes in jobs, and how they can best market their skills. This is a long day session with lunch provided for a minimal cost. The Denver Section officers felt such a strong commitment to this seminar that it is being subsidized.

MEMBERSHIP

The IEEE has, for the first time in recent history, experienced its first decline in U.S. membership. The Denver Section has established a modest goal of adding twenty new members by December 31. Please ask your co-worker and/or your friend to join IEEE to benefit from the technical programs and the various professional plans offered. Remember that the higher the membership, the more diverse the educational possibilities become. If you are already a member, but not a senior member, we also want you to apply for an upgrade. This is the highest level of membership available without an election by your peers. We have forms available. Ask anyone in a section leadership position.

ELECTION

There will be an election for Denver Section officers on October 14. If you have a desire to be an officer, please contact Gary Petersen, Nominations Committee Chairman. Your name will be added to the slate of potential officers for election at the October 14 meeting. The location for that meeting will be listed in the next issue of the RockIEEE Overlook.
Society Chapter Meetings and Information

Joint Meeting
IEEE Lasers and Electro-Optics Society, and the Rocky Mountain Optical Society of America

Thursday, September 10, 1992
7:30 p.m.
National Institute of Standards and Technology
325 Broadway, Room 1107
Boulder, Colorado

Speaker
David Christensen
National Institute of Standards and Technology
Boulder, Colorado

“Vertical-Cavity Semiconductor Structures”
Mr. Christensen will first review the subject, discussing the basic features of vertical-cavity structures and their applications in engineering and physics. These applications range from optical interconnects to controlled spontaneous emission.

He will then discuss the use of optical, electron beam, and x-ray metrology to determine the structural and materials aspects of epitaxial vertical-cavity structures.

Christensen will present the results of the most recent type of vertical-cavity laser, the distributed feedback structure with distributed quantum well gain sections.

Joint MTT/AP/GRS
Microwave Theory and Techniques, Antennas and Propagation, Geoscience and Remote Sensing

Thursday, September 10, 1992
4:00 p.m.
National Institute of Standards and Technology
325 Broadway, Room 1105
Boulder, Colorado

Speaker
Dr. Dag R. Hjelme
University of Colorado, Boulder

“Analysis of Coplanar Waveguide Microwave Circuits Using an Optical Sampling Technique”
An efficient analysis of Coplanar Waveguide (CPW) circuits verifiable by optical sampling will be presented. The theoretical formulation is based on a quasi-static potential distribution, which can be measured with optical techniques in the case when the circuit is on an optoelectronic substrate, such as GaAs. The dynamics are brought into the analysis through the Riccati equation, the parameters of which are expressed in terms of static quantities. This technique should be advantageous for characterizing parasitics, since they are due to local field perturbations, and the optical sampling can give us a picture of the local fields in a small region of a microwave GaAs circuit. Both theoretical and experimental results will be presented.

Contact Zoya B. Popovic, (303) 429-0374, if you have any questions.

Joint PES/IAS
Power Engineering/Industry Applications

Thursday, September 17, 1992
Tour of New Denver Airport
Meet at Thomas Park at the southeast corner of East 26th Avenue and Quebec. No dinner is planned in conjunction with this tour.
4:00 - 6:00 p.m.

Buses will be provided from Thomas Park to the new airport. The tour will last about two hours. Due to safety concerns, we will remain on the bus most of the time. This tour will be popular, so please make your reservations early.

Please contact Barbara at Peterson Company, 388-6322, by Monday, September 14, 1992.

WINNING THE EMPLOYMENT GAME
Career Goal Setting and Job Hunt Strategies Workshop
Provided by the IEEE Denver/Pikes Peak Section and Professional Engineers of Colorado

This workshop will help you to take increasing responsibility and control of your career. Facilitated by a well-established career management expert, the knowledge and skills you gain from this workshop will enable you to "manage your career," rather than allowing it to drift. You will find out about the five elements of your career self and how to increase work satisfaction through a step-by-step career development process. Whether you are seeking to improve your career within your present organization, or desire to seek a position in the open market, the techniques you will learn are applicable short term and long term, including retirement planning. In addition, you will have a unique opportunity to ask questions and take advantage of the many years of experience our facilitator has gained in the career assessment and job search field. Pick his brain and get tips on "guerrilla tactics" that will help you identify and land the job you want in a highly competitive market, whether you are conducting an internal or external job hunt. Discover the many ways to determine and develop your career path.

This workshop is open to all professionals, members or non-members, employed or unemployed. The tools and techniques presented in this workshop are applicable whether you are looking for a job due to external forces (mergers, takeovers, downsizing, restructuring, places going out of business...) or internal forces (tired of your present job, want to do something new and challenging...). They are designed to be valuable now during a job search, and longer term as you work to achieve your ultimate career goals.

OBJECTIVES:
1. Assess yourself through a thorough examination of your background and natural talents.
2. Define and prioritize the basic elements of your career self including your work values, interests, personality strengths, skills and job objectives.
3. Integrate the top priorities of your career self into a written, focused career goal statement, that includes a job objective, qualifications statement and preferred work environment.
4. Learn how to research, identify and evaluate job opportunities that satisfy the criteria described in your career goal.
5. Select the career development options that best enable you to achieve your goal.
6. Learn how to develop and execute marketing strategies that get you the job you want, including demand analysis, phone calling, tailored resume, cover letter, follow up, interviewing, as well as job and salary negotiation.

SCHEDULE:
Saturday, October 17, 1992
8:00 a.m. - 4:00 p.m.
Box Lunch & Refreshments Provided

FACILITATOR:
Paul Unks, M. Ed., is a senior career development consultant at Hutchens Remnik with over fifteen years of experience specializing in individual career counseling, and organizational consulting and training. He teaches at the University of Colorado and Denver University. His areas of expertise include career management, managing stress and wellness, and communications. He has helped thousands of clients and conducted numerous seminars across the country. Where Paul is working with individuals of large groups, his objective is the same: to help others achieve greater satisfaction and success in their work and personal lives. Paul served as director of the Center for Career Development in St. Louis, Missouri for five years prior to moving to California in 1980 when he began his consulting practice. He has studied and worked with Sam Kirk, who along with Richard M. Bolles, spear-headed the National Career Development Project and helped write the popular book What Color Is Your Parachute? Paul has a Masters Degree in Counseling Psychology from the University of Missouri and is a recipient of the top training and development award in the nation, given by the President of the United States.

REGISTRATION:
$20 IEEE Member, $50 PEC member, $80 Non-members, $10 Students
Pre-registration is required. Deadline: October 7, 1992
*$10 may be applied toward new membership
Workshop provided. Attendance limited to 100.
at time of Registration

For additional information, contact Darrell Sabatka (303) 329-1547 or Jim Higared (303) 679-4291

The Denver Section appreciates the support of the Professional Engineers of Colorado, the Pikes Peak Section, and IEEE US Activities in providing this workshop.

NAME
ADDRESS
AMOUNT ENCLOSED
$20 IEEE Member
$50 PEC Member
$80 Non Member
$10 Student
Member No.
Affiliation or School
Make checks payable to: IEEE Denver Section
Please pre-register to guarantee your space. Deadline: October 7, 1992
Denver Section provides this seminar at cost, a service to the professional community.
Region 5 Conference
by Doyle Ellerbruch

The Denver Section was well represented by its Student Branches at the Region 5 Conference in San Antonio in April.

The First Place winner of the West Area Student Paper Contest, Brian T. Hemmelman from the South Dakota School of Mines and Technology, presented his paper "The Dynamics of Fault Tolerant Computing" at the Region 5 Competition.

The Second Place winner of the West Area contest, Cadet Mary Jo Drozdowski from the U. S. Air Force Academy, presented her paper, "Variation of Linear Predictive Coding Techniques for Recognition of Normal, Loud, and Lombard Speech" and was declared the winner of the Region 5 Contest. Her first step toward that accomplishment was the Denver Section Paper Contest held earlier in April. Nine papers were presented at the Region 5 competition.

Student Design Contest Teams from the University of Wyoming, the University of Colorado-Boulder, Colorado State University, Denver University, and the South Dakota School of Mines and Technology won First Place awards and Metropolitan State College of Denver won a runner-up award. The Design Teams from these schools were among 23 teams that participated in that contest.

Overlook Advertising

<table>
<thead>
<tr>
<th>Ad Size</th>
<th>One Time</th>
<th>Multiple</th>
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<tbody>
<tr>
<td>Business Card</td>
<td>$25.00/mo.</td>
<td>$20.00/mo.</td>
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<tr>
<td>1/8 page</td>
<td>$60.00/mo.</td>
<td>$50.00/mo.</td>
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<tr>
<td>1/4 page</td>
<td>$150.00/mo.</td>
<td>$130.00/mo.</td>
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<tr>
<td>1/2 page</td>
<td>$250.00/mo.</td>
<td>$225.00/mo.</td>
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<tr>
<td>Full Page</td>
<td>$400.00/mo.</td>
<td>$360.00/mo.</td>
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</tbody>
</table>

Insert 8-1/2 x 11 $500.00/mo.

Business card ads must be actual business cards. All other ads should be provided in camera-ready format or additional set-up charges may apply. Inserts must be provided (quantity approx. 4225) and delivered to the printer.

Deadlines for 1992-1993

October 1992 Newsletter - August 17, 1992
November 1992 Newsletter - October 2, 1992
January 1993 Newsletter - December 1, 1992
February 1993 Newsletter - January 1, 1993

Please make checks payable to Denver Section IEEE. Send business card or ad copy and check to: Anita Wanberg, AMW, P.O. Box 4056, Englewood CO 80155-4056, (303) 220-8042.

Private Practitioners Task Force

The IEEE Institute May-June issue included the following questionnaire for self-employed engineers who are interested in participating in the activities of the task force. One of the objectives of the task force is to establish a local "IEEE Consultants Network." If you are interested in this activity, please complete the questionnaire and return it to the address shown. Once these are collected you will be contacted for further action.

Private Practitioners Task Force Survey

<table>
<thead>
<tr>
<th>Name</th>
<th>IEEF #</th>
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</thead>
</table>

City | State | Zip

<table>
<thead>
<tr>
<th>Income derived from consulting:</th>
</tr>
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<tbody>
<tr>
<td>More than 20%</td>
</tr>
</tbody>
</table>

Years earning that percentage: ___ years

Total number of years consulting: ___ years

Will you help organize a network in your area? Y | N |

May we give your name to other consultants so they can contact you? Y | N |

Should the PPF publish a periodic? Y | N |

Would you contribute material? Y | N |

Would you like the PPF to organize a referral service? Y | N |

Do you presently belong to any consultants' organization? Y | N |

If yes, give the name of the organization:

Consulting skills (optional):

Comments and suggestions:

Mail completed questionnaire to: PPF/Department I

IEEE-USA

360 L St., NW, Suite 1202
Washington, D.C. 20001-5304

Employment Guides Available

Comprehensive Technology Employment Guides Available to Engineers, Graduates and Scientists

Washington, July 17 -- For recent technology graduates and for engineers and scientists hit by defense industry cutbacks, help in finding employment is now available through a single source.

Two volumes of an Employment guide for Engineers and Scientists, updated for the '90s, are being offered by IEEE-USA, the United States Activities arm of The IEEE. The Guide is available in two editions: one designed for those with employment experience; the other, for students and recent graduates.

The student edition, just published this month, contains basic information on conducting a job search. Special features include a list of the 50 most-asked questions during a job interview.

Both publications contain information on salaries, along with solid advice on how to conduct a job search. They also provide assistance on how to:

- cope with job loss;
- write resumes;
- prepare for interviews;
- work with employment services;
- interact with colleagues and friends;
- evaluate compensation packages;
- assess legal rights in the employment process.

Both volumes include a Directory of Employers of Engineers, a comprehensive state-by-state sourcebook that lists hundreds of companies, including telephone numbers and contact persons.

The Guides are sold through the IEEE Service Center: $14.95 to members; and $19.95 to non-members, plus tax and shipping. To order, call 1-800-678-4333 and request Catalog No. UE38166-7, for the experienced engineer edition; or UE38188-3, for the student edition.

A copy of either Guide will be provided at no charge to non-student IEEE members who are unemployed. Written requests, including membership number, should be sent to William R. Anderson, IEEE-USA, 1228 L Street, N.W., Suite 1202, Washington, D.C. 20005.
University of Denver
New Technology Management Program

Denver – This fall, University College at the University of Denver will offer a new graduate program designed to benefit technology-intensive organizations.

Traditional, technical experts - scientists and engineers - receive little or no formal preparation for management. Similarly, those educated in management are offered little more than a course sequence in applied technology. University College's Management of Technology (MOT) degree will teach skills to manage the development, implementation and diffusion of technology in industrial and governmental organizations.

The degree requires 51 quarter-hours for completion and students will take courses in four core areas: Contemporary Context of Technology Management; Strategic and Business Issues in Technology Management; Management Dynamics in Technology Environments; and the Current Status of Technology as a Strategic Resource.

For more information, call Janalee Chmel at University College, 871-3818.

Schedule of Conferences and Meetings

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Conference</th>
<th>Speaker</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 30 - Oct. 2, 1992</td>
<td>Estes Park</td>
<td>Hardware Software Codeign</td>
<td>Rick Karchik</td>
<td>(303) 673-6223</td>
</tr>
<tr>
<td>Oct. 21-24, 1992</td>
<td>Denver</td>
<td>Telelearning Conference '92</td>
<td>PBS/ALS</td>
<td>(801) 228-4630</td>
</tr>
<tr>
<td>Oct. 30, 1992</td>
<td>Denver</td>
<td>WARC'92 Workshop</td>
<td>Zoya Popovic</td>
<td>(303) 492-0374</td>
</tr>
<tr>
<td>Sept. 9-14, 1994</td>
<td>Denver</td>
<td>Petroleum &amp; Chemical (PCIC)</td>
<td>John Tary</td>
<td>(303) 452-6111</td>
</tr>
<tr>
<td>July 27-August 2, 1996</td>
<td>Denver</td>
<td>PES Summer Meeting</td>
<td>Paul Meisel</td>
<td>(303) 761-6960</td>
</tr>
<tr>
<td>July 27-August 2, 1996</td>
<td>Denver</td>
<td>PES Summer Meeting</td>
<td>John Nelson</td>
<td>(303) 431-7895</td>
</tr>
<tr>
<td>July 27-August 2, 1996</td>
<td>Denver</td>
<td>PES Summer Meeting</td>
<td>Fred Jones</td>
<td>(303) 431-7895</td>
</tr>
<tr>
<td>May, 1997</td>
<td>Denver</td>
<td>MITT</td>
<td>Gary Petersen</td>
<td>(303) 329-1506</td>
</tr>
<tr>
<td>August 17-19, 1999</td>
<td>Denver</td>
<td>EMC</td>
<td>Hussain Haddad</td>
<td>(303) 460-2114</td>
</tr>
<tr>
<td>August 17-19, 1999</td>
<td>Denver</td>
<td>EMC</td>
<td>John Dunn</td>
<td>(303) 449-1055</td>
</tr>
<tr>
<td>August 17-19, 1999</td>
<td>Denver</td>
<td>EMC</td>
<td>Claude Weil</td>
<td>(303) 497-5305</td>
</tr>
<tr>
<td>August 17-19, 1999</td>
<td>Denver</td>
<td>EMC</td>
<td>Mark Lapchak</td>
<td>(303) 773-4626</td>
</tr>
</tbody>
</table>

Proposed Conferences and Meetings

International Conference on Harmonics in Power Systems (ICHPS) 1996
ESMO 1996
Sections Congress 1996
ITC 2000
ICC 1995-2000
The Institute of Electrical and Electronics Engineers - Denver Section

Executive Board

Chairman
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Hydrologics, Inc.
3101 S. Platte River Dr.
Englewood CO 80110
(303) 761-6960

St. Vice Chairman
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Denver CO 80216
(303) 388-6322

Vice Chairman
Members Services
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Boulder CO 80301
(303) 924-3879

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(303) 556-4007

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Golden CO 80401
(303) 238-7548

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422-9374

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Long Range Planning - Michael J. Foley, Forensic Engineering Inc., 730-7707

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Conferences - John Tary, Tri-State Generation and Transmission Association, 452-6111
Awards - John R. Reesy, 755-1720
Student Fund - Daniel Greco, Greco Development Company, 363-7291
Professional/Industrial Liaison - Tony Thomas, General Electric, 753-2289

Nominations - Gary A. Petersen, Public Service of CO, 571-3626
Membership - Don E. Lindahl, Siemens Energy & Automation, 770-7907
Pre College Student Activities - Michael Meister, NTIA/ITS.NI, 497-6571
Student Branch Activities - Daniel Greco,

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Subsection Chairman
Black Hills - R.D. McNeil, Electrical Engineering Dept., South Dakota School of Mines & Technology, Rapid City, SD, 57701, (605) 394-2452
Centennial - Sadrul Ula, Electrical Engineering Dept., University of Wyoming, Laramie, WY 82071, (307) 766-6268

Society Chapter Chairs

Aerospace and Electronics - Ed LeBlanc, Transmountain Electronics, 393-9257
Electromagnetic Compatibility - Mark Lapchak, Metrum Information Storage, 773-4626
Engineering in Medicine and Biology - Jim Haller, 790-9010
Joint Antenna and Propagation/Microwave Theory & Techniques/Geoscience and Remote Sensing - Ron Vidano, Ball Aerospace, 462-2001
Joint Vehicular Technology/Communications - Ken Shugg, Martin Marietta Information and Communications Systems, 971-7051

Instrumentation & Measure - Richard Groves, CO School of Mines, 273-3677
Joint Computer/Information Theory - Bryce Chapman, Storage Tek, 673-4762
Joint Power Engineering/Industry Applications - Bob Struthers, United Engineers & Constructors, 843-2235
Magnetics - Dr. Subrata Dey, Storage Tek, 673-6494
Power Engineering - Kenneth McElyde, CO Univ Electric Assoc., 249-4501
Reliability - Rick Karch, Storage Tek, 673-6223

Senior Past Chairman - John R. Reesy, 755-1720
RockIEEE Overlook Editor - David B. Richmond, United Engineers, 843-2465
P.O. Box 5088, Denver, CO 80217

Publication Coordinator - Anita Wanberg, AMW, Phone or Fax: 220-8042
P.O. Box 4056, Englewood, CO 80155-4056

The Institute of Electrical and Electronics Engineers
Denver Section
P.O. Box 4056
Englewood CO 80155-4056
Phone: 220-8042

The Month at a Glance

August 17
RockIEEE Overlook Deadline

September 10
LEO/Optical Society Meeting
MTT/AP/GRS Meeting

September 15-17
Optical Fiber Meas. Symposium

September 17
PES/IAS Meeting

September 23-24
LANfair

September 30-October 2
Hardware Software Codesign

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