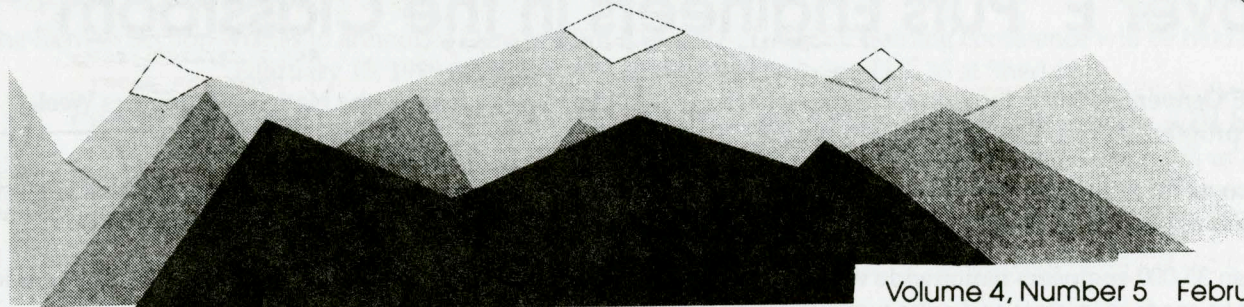


# RockIEEE Overlook



Volume 4, Number 5 February, 1999

Visit the IEEE Denver Section Home Page at [www.engr.du.edu/ieee/densec.html](http://www.engr.du.edu/ieee/densec.html)

## Society Chapters

### Computer Society

All members interested in participating in the Computer Society of Denver, please contact Jim West @ 303-218-5658 or [j.west@computer.org](mailto:j.west@computer.org).

### PES/IAS

PES/IAS meetings are typically held on the third Thursday of the month September through May excluding December. All participants are requested to sign up in advance by calling Barbara Linton at (303) 388-6322.

### Officers

Society Chapter Officers can enroll in an officer training class held during the Denver EXPO. This class covers everything you need to know to run your society chapter. See the enrollment form on page three of this newsletter. Contact Lisa Brookman at 303-571-7575 for more information

### IEL Online

The IEEE/IEE Electronics Library (IEL) is now available to institutional customers via the Internet. With a subscription to IEL Online, customers worldwide can access full-page PDF images of IEEE journals, conference proceedings, and standards directly over the Internet. Users will be able to search through a bibliographic database, based on the INSPEC database, and link to corresponding PDF images of the selected records. IEL Online is updated monthly, and is available as an annual subscription covering the range of IEEE and IEE publications from 1988 forward. Access to the subscription is based on IP (Internet Protocol) address and the number of simultaneous users.

The National Aeronautics and Space Administration (NASA) became one of the first subscribers to IEL Online when it subscribed even before the product was released. A total of 13 different NASA organizations joined together to purchase IEL, making this the biggest network sale in IEEE history. This subscription serves over 3,000 engineers across the United States, from such sites as

NASA Headquarters in Virginia, Kennedy Space Center in Florida, Goddard Flight Center in Maryland, and The Jet Propulsion Laboratory in California. For more information, contact Scott MacFarland, IEEE Publications.

### Standards News

IEEE Standards recently began to offer a selection of its individual standards for one-time access via the web in PDF format. As new on-line subscription groups are developed and made available, so will the individual standards that make up these subscription collections.

The delivery of IEEE individual standards via the Web will decrease delivery time from weeks to a matter of hours. You can find more information about this service at <http://standards.ieee.org/catalog/sol>.

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# National Engineers Week Discover"E" Puts Engineers in the Classroom

The IEEE Denver Section is looking for engineers who would like to participate in the National Engineers Week Discover"E" program through the week of February 21-27, 1999.

The Discover"E" volunteer will "help grade school and high school students discover the exciting worlds of engineering and technology." The "goal is to relate practical applications of math, science and engineering to young people."

More than 35,000 engineers nationwide work with more than four million elementary, junior and senior high students and teachers to conduct in-class and extracurricular programs.

For more information you can contact Jaime Lujan at [jaimel@xilinx.com](mailto:jaimel@xilinx.com) (preferred) or at 303-544-5419.

## Welcome The Fellows!

What is a Fellow? As described in the IEEE Bylaws "The grade of Fellow recognizes unusual distinction in the profession and shall be conferred only by invitation of the [IEEE] Board of Directors upon a person of outstanding and extraordinary qualifications and experience in IEEE designated fields, and who has met

important individual contributions to one or more of these fields."

The slate of newly elected IEEE Fellows for 1999 is listed alphabetically by last name on the Fellow Program link on the Awards/Fellow Activities Web site. Check out this site at <http://www.ieee.org/awards>

/fellows.htm to see if any of these newly elected Fellows are residing in your Section. You can reach out to these Fellows to congratulate them. For additional information, contact IEEE Awards/Fellow Activities.

## Engineers Week

The 1999 U.S. National Engineers Week will be 21-27 February.

To order planning kits and other materials, call (412) 741-1393 or order from the on-line product catalog at <http://www.eweek.org>.

For planning kits, send an email to [eweekorders@abdint1.com](mailto:eweekorders@abdint1.com).

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## Which degree is better? A master's in engineering. Or a master's in business.

If you really want to be successful, the answer is both. After all, the best jobs are interdisciplinary, so you need to be, too. Not only do you need to know your professional area well, you also need a great deal of expertise in business management.

That's why the Daniels College of Business offers an interdisciplinary Master of Science in Management program.

Others may offer both degree programs, but they can't offer the strength in both disciplines that the University of Denver can.

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# IEEE EXPO '99

The Denver Section wishes to announce Denver IEEE EXPO '99. The IEEE training conference will be held Saturday, February 13, 1999 from 12-8 p.m. at the Doubletree on U.S. 36 at Sheridan.

**Our Speaker will be Brian Zonnefeld of BOLDER Technologies. His topic will be "Innovations in Energy Storage and Ultra-High Power Delivery"**

Two classes are available:

### "Starting a Business"

This class is presented by the Colorado Small Business Development Center and will provide the materials and training required to get your business idea off the ground. The class will concentrate on special challenges for engineering-oriented businesses. Jayne Reiter will be the instructor. This class will be taught from 1-5 p.m.

### "VHDL Programming"

This computer-based class is presented by AVNET and will provide an excellent introduction to VHDL programming using the latest software tools. Phil Brinkley will be the instructor. This class will be taught from 1-5 p.m.

Space for these classes is limited. Payment is required upon registration.  
Contact Jim West @ 303-218-5658 or [j.west@computer.org](mailto:j.west@computer.org) for more information.

## Denver Section Students

The conference showcases Denver Section Student paper presentations from 1-4 p.m. All members are encouraged to attend presentations from all major colleges along the Front Range.

## Officer Training

Society Officer Training will be conducted in another session. If you are a society officer (or want to be), please enroll for this free training on everything IEEE has to offer to your society. A training book will be provided.

## Registration Form

Reserve your space today - Reservations are required by February 10 for training classes.

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone # \_\_\_\_\_ IEEE # \_\_\_\_\_

### Reservation and Prepayment required for the Training Classes (Select only 1 item)

VHDL Programming Class with Dinner	1-7 p.m.	\$40	_____
VHDL Programming Class <b>WITHOUT</b> Dinner	1-5 p.m.	\$25	_____
Starting a Business Class with Dinner	1-7 p.m.	\$30	_____
Starting a Business Class <b>WITHOUT</b> Dinner	1-5 p.m.	\$15	_____
Society Officer Training Class <b>includes</b> Dinner	1-7 p.m.	FREE	0 _____
Section Meeting and Dinner	5-7 p.m.	\$15	_____

### Dinner Selection:

Salmon with Wild Rice Pilaf \_\_\_\_\_

Chicken Parmesan with Fettucini Alfredo \_\_\_\_\_

New York Strip with Gorgonzola Demi-Glace \_\_\_\_\_

I have special dinner needs: \_\_\_\_\_

Please make check payable to "IEEE Denver Section"

Send check to: Jim West, IEEE Denver Section, 7329 S. Tamarac Ct., Englewood, CO 80112



## The Engineering Profession Videotape Series (Vol. 1)

This set of tapes is targeted for student engineering seniors and recent graduates. It covers topics in professionalism important for successful careers. Sponsored by the IEEE Foundation, it is available to universities, organizations and individuals. Included are 6 videotapes packaged with a diskette containing abstracts and authors' biographies as well as the PowerPoint source material of presentation notes. To order, or for inquiries, contact IEEE Customer Service.

## Y2K The Countdown Continues

Are your databases Y2K compliant? A number of Sections and Chapters maintain special databases, which are used for mailings and promotions. If you have such a database, and in particular if it is something for which you developed the application program, you should consider testing for Y2K compliance.

All IEEE entities should request written documentation from their vendors or programmers stating that the systems being used to manage their databases are Y2K compliant (i.e., programmed to recognize a 4-digit year).

If you have questions, contact Vera Sharoff, IEEE Regional Activities.

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## Newsletter Deadlines and Advertising Information

Deadlines for the RockIEEE Overlook are as follows.

Newsletter	Deadline
September 1998	August 1, 1998
October 1998	September 1, 1998
November 1998	October 1, 1998
December 1998	No Issue
January 1999	December 1, 1998
February 1999	January 1, 1999
<b>March 1999</b>	<b>February 1, 1999</b>
April 1999	March 1, 1999
May 1999	April 1, 1999

Send ads to Anita Wanberg, P.O. Box 4626, Englewood, CO 80155-4626 or call (303) 220-8042. Make checks payable to IEEE Denver Section.

Artwork should be submitted in camera-ready form (PMT). Please accompany all artwork with a check and a letter stating the number of times and dates the ad should be run. Ads should fit **within** the dimensions listed below.

Description	Dimensions	Single Rate	Multiple
Business Card	2.5" w x 1.5" h	\$ 25.00/mo.	\$ 20.00/mo.
1/8 page	3.5" w x 2" h	60.00/mo.	50.00/mo.
1/4 page	3.5" w x 4.5" h	150.00/mo.	130.00/mo.
1/2 page	7.5" w x 4.5" h	250.00/mo.	225.00/mo.
Full page	7.5" w x 9.5" h	400.00/mo.	360.00/mo.
Inserts	8-1/2" w x 11" h	250.00/pg.	200.00/pg.

# The Road to a New Job Can Be a Long One.

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**IEEE-USA** has developed an electronic job-listing service that gives you free information on job openings. The service is a searchable system of files available by electronic mail or through the IEEE Home Page on the World Wide Web.

*To obtain current job listings, set your web browser to URL  
[www.ieee.org/jobs.html](http://www.ieee.org/jobs.html).*

*Also check out IEEE-USA's entry level employment services at  
[www.ieeeusa.org/usab/EMPLOYMENT/entry.html](http://www.ieeeusa.org/usab/EMPLOYMENT/entry.html).*



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Call for Papers, Rawcon '99, August 1-4, 1999. Denver, Colorado

# 1999 IEEE Radio and Wireless Conference

Deadline: March 5, 1999 <http://rawcon.org>

The IEEE Radio and Wireless Conference (RAWCON) is the premier interdisciplinary forum for advances in wireless communications technology. RAWCON highlights the intersections between RF technology and communication system engineering, between system performance and component-level design, between signal processing and RF hardware design, and more. To understand these practical multidisciplinary issues requires interaction among technical specialists with few opportunities to meet. RAWCON offers single track sessions to ensure a broad audience for oral presentations and a stimulating environment for poster presentations. Meanwhile, a comfortable and casual ambiance stimulates in-depth informal interactions. RAWCON's approach has been particularly effective in tracking and shaping the latest developments in emerging areas like Broadband Wireless Access and Local Multipoint Distribution Services (LMDS), which demand multidisciplinary thinking.

RAWCON is a truly international event. RAWCON'98 attracted nearly 150 submissions from 27 countries. The program, including 48 talks, 44 poster presentations, workshops, a panel session, and an exhibition, made front page news in the electronics industry. Registration was over 300. RAWCON'99 speakers will again appreciate the wide audience, single-track format (including non-overlapping poster sessions), IEEE-distributed Conference Proceedings, significant registration discounts, and broad press coverage. RAWCON will remain adjacent to Colorado's beautiful Rocky Mountains in 1999. The conference hotel is the full service Denver Marriott Southeast, with direct freeway connections to Denver International Airport (26 miles) and downtown attractions (10 miles).

RAWCON'99 seeks original, practical technical presentations in:

- \* **SYSTEM PERFORMANCE:** characterization (by simulation and measurement) of base stations and mobiles, signal processing, digital modulation, linearization, etc.
- \* **SYSTEM AND RADIO ARCHITECTURE:** broadband wireless access, 3G mobile, wireless LANs, wireless local loop, PCS, cellular, paging, software radio architectures, etc.
- \* **ANTENNAS & PROPAGATION:** smart antennas, antenna design, propagation modeling, etc.
- \* **ACTIVE DEVICES:** linearity, modeling, characterization, technology, RFICs, MMICs, etc.
- \* **PASSIVE COMPONENTS:** integrated passives, filters, technology, design, etc.
- \* **INTERDISCIPLINARY TOPICS** such as smart antennas and system performance; RF propagation and system performance; system design tradeoffs to minimize power consumption; interaction between RF issues and wireless system networking; trends in digital signal processing and their effects on RF system design.

Authors are asked to submit five copies of a two-page summary (including figures) to the Technical Program Chair (TPC) by March 5, 1999. The summary must contain complete contact information (including email) for the corresponding author. Summaries may be submitted electronically as MS Word, PostScript, or PDF documents. Please indicate your preference for oral or poster format.

Submissions will be evaluated for originality, significance, technical soundness, and interest to a broad audience. Authors will be notified of acceptance by April 23, 1999. Final

accepted papers (4 pages in length) must be received by the TPC in camera-ready form by June 4, 1999 to be included in the published Proceedings.

Direct submissions to the Technical Program Chair:  
Dr. Michael S. Heutmaker  
Lucent Technologies  
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(U.S. mail only)  
Rte. 569 Carter Rd., Hopewell, NJ, 08525 (non-postal shipments)  
tel: 609-639-3116  
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For Conference information, contact the General Chair:  
Dr. Roger B. Marks, NIST  
(mailto:r.b.marks@ieee.org)

For Exhibition information, contact the Exhibits Chair:  
Mr. Michael Fennelly, Roos Instruments  
(mailto:m.fennelly@ieee.org)

Other opportunities: RAWCON'99 is open to volunteers seeking challenging opportunities. We are also seeking proposals for workshops and panel discussion sessions, and we invite professional groups to consider holding co-located meetings. Contact the Chair.

The sponsors of RAWCON'99 include:

- \*IEEE Microwave Theory and Techniques Society (MTT-S)
- \*IEEE Communications Society (pending approval)
- \*National Institute of Standards and Technology (NIST)
- \*Institute for Telecommunications Sciences (ITS)

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Chair, 1999 IEEE Radio and Wireless Conference (RAWCON'99)



# The Institute of Electrical and Electronics Engineers - Denver Section

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