

Rocky Mountain Section News

Volume 49, Issue 1

January/February 2004

Post-Holiday Event February 5

In lieu of a holiday party in the midst of a very hectic December, we have decided to have a post-holiday event. Join SWE at the Heritage Square Music Hall in Golden for their fun-filled adaptation of Frankenstein.



Thursday, February 5th

Buffet dinner begins at 5:30, show at 7:30.

Tickets are \$27/person and include dinner, coffee/tea/milk during dinner, dessert, dinner gratuity, play and musical review. Alcoholic beverages and soft drinks are available for an additional charge. Family and friends welcome.

RSVP no later than Wed., January 21, to Heather Doty.

(303) 939-6291

heather.doty@swe.org

5942 Gunbarrel Ave. Apt. D

Boulder, CO 80301

Make checks payable to SWE RMS.

Tickets are on a first-come, first-served basis. A reservation is a financial commitment.

Heather Doty

SWE RMS Secretary

Congratulations to Women Leaders of Excellence

Sandra Scanlon for her work with SWE

Jill Tietjen for her work with the Girl Scouts

They will be recognized on Tuesday, February 10, at the 9th Annual Women Leaders of Excellence Awards dinner.

Happy Valentine's Day!



Regional Conference in Colorado Springs, Feb. 20 – 21

The University of Colorado – Colorado Springs Society of Women Engineers looks forward to the opportunity to host the SWE Regional Conference on February 20 – 21, 2004, in Colorado Springs. The Pikes Peak and Rocky Mountain sections have offered to assist with the conference. The campus provides beautiful conference facilities while the city of Colorado Springs serves as a spectacular backdrop. For more information, visit www.swe-pps.org and click on the Region I Conference link at the top of the page.

National Engineers Week

National Engineers Week is February 22-28, 2004. Check out the website for all of the activities occurring across the country, www.eweek.org. This website is a terrific resource for E-Week ideas, activities, and Engineering accomplishments. Many companies and schools and universities celebrate National Engineers Week. If you are looking for ways to help your school or company with activities, this website is the place to go!

Don't forget that SWE is the National Engineers Week sponsor for 2006!

Colorado Engineering Council's Engineers Week Dinner Feb. 27

This year's Engineers Week Dinner is co-sponsored by the Colorado Engineering Council and the Professional Engineers of Colorado and will be held on Friday, February 27, 2004 at the Red Lion Hotel at Quebec and I-70. This year's speaker will be Ken Wright, P.E., who will be giving an exciting presentation on the Ancient Water System at Mesa Verde used by the Anasazi Indians.

Order of the Engineer will be held this year at this event, so if you would like to be inducted, please get your dinner reservation in!

Submitted by Jennifer Halstead

Letter from the President

HAPPY NEW YEAR!!!

Here we are at the half-way mark of our fiscal year! I'm pleased to report that we have already accomplished many of our Section goals, and we are well on our way to several others. I hope you plan to attend Our Regional conference in Colorado Springs....there is a big anniversary party planned for all of the Sections with milestone anniversaries. Come help SWE-RMS celebrate our 50th!!

Thanks to Joan Graf and Heather Doty for planning our holiday event. We postponed it until after December in order to free up your calendars. Joan and Heather have found a really fun and different event for members and their families.....watch for more details!

We have accomplished a complete update of the SWE-RMS distribution e-mail list!!! I am particularly excited about this accomplishment, as e-mail notices allow members to receive the most up-to-date information about what is happening in the Section. If you need to change your e-mail address or unsubscribe, please see the instructions on page 5 of this newsletter.

We will be starting preliminary work on office elections for our next fiscal year in February. We will be holding elections in April (although the new officer induction will be effective July 1, as always) so that the new officers are elected in time to attend the officer training offered in May and the Awards banquet in May. If you are interested in running for a position, please contact any Board member, or Diana Dede, who has graciously offered to head up our Election Committee this year.

Girls Exploring Engineering, Science and Technology is rapidly approaching. This is a monumental undertaking by Sandra Scanlon and Lockheed-Martin (among many others), which our Section can be particularly proud of! Demand from students to attend is at an all-time high again this year. This event is gaining amazing amounts of momentum every year. We will need approximately 100 volunteers for this year's event on the day of the event (see the newsletter for additional information), so if we haven't already heard from you, please contact myself or Faith Kay (fekay@aol.com) to volunteer. This event is rewarding for all involved, and you won't want to miss it!

GESET is part of National Engineer's Week February 22-28, 2004 (www.eweek.org). Please join us for the Engineers' Week dinner sponsored by CEC on Friday, February 27th. Watch for more details, including applying

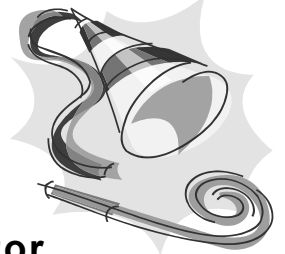
to be inducted into the Order of the Engineer.

Currently, we have requests for 3 speakers (or panels) at 3 area high schools as a result of our contact at MESA from the Fall Mini-Conference. If you haven't already expressed an interest in being a speaker for SWE-RMS, please contact me and I will add you to our list. If you would like to volunteer to handle our speaker requests (this is mainly a position requiring a few phone calls), also please contact me.

All the best to you and yours for the New Year! Thanks to everyone for their hard work so far this year and I look forward to a very successful rest of the year.

Sincerely,

Jennifer Halstead
SWE-RMS President
(and Velvet - CCI puppy # 2)



A Note from the Editor

Happy New Year!

Many opportunities are coming in the next couple months. Read your newsletter carefully to learn about these events.

This issue features Denise Dulaigh, a newer member, in our member profile. If you would like to be featured or know of another member you would like featured in this section, please let me know.

If you have any topics for the newsletter, please contact me. As always, thank you for your support and contributions!

Tricia Schwaller
Newsletter Editor

Scholarship Application Evaluators Needed

We are looking for scholarship evaluators this year, a little earlier than usual since we have moved the deadline up to February 1 to enable an earlier awards banquet. If you are interested in reading and evaluating scholarship applications, please contact Barb Kontogiannis or Mary Ann Tavery (contact info on last page of newsletter). We'll need help in February and March. Scholarships can be evaluated on your own time over roughly a two-week period. It's a great way to get involved without an extensive time commitment. Thanks!



Do You Know SWE-RMS History?

Attention, long-time Section members! Do you know the history of SWE-RMS? Would you be willing to contribute an article to the next newsletter about our Section's history? Your unique perspective of the history of our Section is something to be shared and documented. If you are interested, please send your written article to Tricia Schwaller, newsletter editor. If you need any reference materials from the Section archives, please contact Jennifer Halstead, President.

2004 SWE Essay Contest Call for Volunteers

We need assistance in March to review and grade the incoming essays from 6th graders in the region. We have two rounds of review, including an initial review of all essays and final round grading. If you can help with either or both rounds, please contact Katheryn Coggon at 303-866-0408 or Katheryn.Coggon@hro.com. Please note that we will be on a compacted review schedule in order to meet the new earlier awards banquet deadline, so all grading needs to be completed during the month of March.

Thank you.

SWE-RMS Volunteer Needed to Organize Speakers

I am looking for a SWE-RMS volunteer to keep track of speaker requests and match them with people who are willing to speak. (I have a list of 3 requests and several possible speakers already). These speaker requests are usually from schools or student groups, and they are looking for 1 to 5 people to come talk with their students about Engineering for an hour or so. (Speakers don't always have to be female, so you can enlist the help of others in the industry!)

I would say that at most this position requires about 2-3 hours per month (mostly coordinating e-mail and phone calls) and is perfect for someone who is looking to get more involved without an extensive time commitment!

Contact me directly if you are interested and thanks in advance for your help!

Jennifer Halstead
SWE-RMS President
720-870-6749

Schloss Honored for Industry Achievements by ACEC/CO

Denver, CO - The American Council of Engineering Companies of Colorado (ACEC/CO) presented Kristy Schloss, president and owner of Schloss Engineered Equipment, Inc., with the Council's prestigious General Palmer Award at its annual meeting April 25, 2003. This award is given to an engineer in industry who meets the following considerations: contribution to the State of Colorado; recognition in the community; advancement to the engineering community; and impact of contributions on future generations.

Schloss exemplifies the criteria as exhibited through her continued involvement with the University of Colorado at Boulder engineering department, recognition from various organizations for her contributions to the profession as an advocate for small business, expanding business into international markets, and service to the community. Schloss received her bachelor's degree in civil engineering from CU-Boulder in 1986.

Schloss' keen business savvy resulted in achieving a 900 percent increase in her company's international exports over the past seven years. The company's export business has grown to include more than 30 countries – an achievement that was recognized by the U.S. Small Business Administration that named Schloss the 1999 Colorado, Regional, and National Exporter of the Year.

Schloss is also a strong advocate for higher education, understanding its importance in providing the state with the high-tech workforce necessary to maintain a healthy, vibrant economy. Through policy initiatives and her personal leadership, Schloss assisted the state's community colleges in developing state-of-the art technical curricula. She also has a strong presence at CU-Boulder, serving on advisory boards for the Women in Engineering Program, the Department of Civil Engineering, as well as the college-wide Engineering Advisory Council. Other boards on which she serves include the U.S. Secretary of Commerce's Environmental Technologies Trade Advisory Committee and District Export Council, the National Advisory Council to the Small Business Administration, the World Trade Center Denver, and Mile High United Way.

In 2002, Schloss received Subaru's Technology Driven Woman of the Year award to showcase women in technology-related careers and to provide a forum where women can be recognized for their accomplishments in these fields; and inspire other women and girls to pursue the

area of technology as a career path.

ACEC/CO is a business organization of more than 246 member firms employing over 8,500 persons in the independent private practice of consulting engineering. It operates for the purpose of furthering the private practice of consulting engineering, the protection of the public safety and welfare, and the furthering of satisfactory business relations of its members with their clients. The organization supports the maintenance of high professional standards, the interchange of business experience, and the promotion of beneficial relations among its members.

Your New Year's Resume Checkup

Like millions of people coast to coast, you have probably resolved to start 2004 with renewed job-search enthusiasm. If it has been a while since you brushed up your old resume, you'll want to begin your job search with a New Year's resume check up.



These five questions will help you focus your resume for even better results in the new year.

1. Has your career objective changed since your last job search?

More specifically, are you attempting to change your industry or profession? If so, your resume requires a new marketing message based on your transferable skills. This will help potential employers see you outside of the context of your current industry or profession.

Remember, a resume is more than just an historical document; it is the print ad of your job-search campaign. For peak effectiveness, your resume should be based on the buying motives of your new target audience. Communicating your transferable skills is an excellent way to tap into employer buying motives.

2. Does your current resume reflect your professional growth—or are still using the same resume format that got you your first job out of college? As you grow professionally, you'll need a resume that reflects your level of professionalism. The more sophisticated "hybrid" format allows you to showcase your best accomplishments based on the strategic "selling points" of your career.

3. Does your resume feature accomplishments from top to

bottom?

The best way to capture employer's attention and create a strong first impression is with measurable accomplishments. Accomplishments are most significant when they demonstrate your contribution to an employer's bottom line. If your resume focuses more on what you did than on how well you did it, it's time to rewrite those "features" into "benefits."

4. Was your last job search prior to 2001?

That may seem like an odd question, but if this is your first entrance into the job market since before 2001, you're in for a shock. The job market of the late '90s was fantastically in favor of job seekers; resumes were less important in attracting employer attention. Today's job market, however, is fiercely competitive, and a polished, professional resume is critical to winning an employer's notice. If your last job search was a "walk in the park," look objectively at your resume. Does it have what it takes to compete against an avalanche of candidate responses or will it likely get lost at the bottom of the resume pile?

5. Most important—are you getting responses from your resume?

Here's the real proof. Your resume has only one job: to get you interviews. If that isn't happening, don't just blame the job market—improve your message. Think of your job search as a professional marketing campaign in a saturated market. The tougher the competition, the more vitally important it is to have a resume with a strong marketing message that sets you above the crowd.

Deborah Walker, CCMC
Resume Writer ~ Career Coach

For more in-depth information on resumes, job-search strategy and interview skills, check out the article archive at my website: www.AlphaAdvantage.com

Email: Deb@AlphaAdvantage.com
Toll-free phone: 888-828-0814

*Procrastination is the
thief of time.*

*— Edward
Young*

Member Profile: Denise Dulaigh

City of residence: Aurora

Family: Married to my husband Donn for 10 years with two daughters: Emmalee, almost 5 years old, and Grace, almost 2 years old



Member Grade:
Professional

How long have you been a member of SWE? 4 years

How did you become involved in SWE?

I joined SWE when I moved to Denver. My company encouraged membership and I am glad they made me aware of the Society. My experiences have been very positive.

What positions have you held?

I do volunteer work for the Society, but have not held any positions.

What have you enjoyed most about SWE? Why?

I enjoy the networking within the Society, whether informally at a restaurant, or formally at conferences (mini-conferences or National Conference). I have met so many women engineers in the past year and was surprised to find out how many there are in the Denver area. I have had the opportunity to do some volunteer work for the Society and am amazed about how much each experience has taught me.

What is your current occupation/title?

Senior Systems Engineer in the Aerospace Industry

How did you get to that position?

I have worked in this industry for 8 years. I was initially hired for a position overseas after receiving my Masters degree. My company has many options for career advancement and they have helped me mature into my current position.

What was your college training?

I have a BS and MS in Mathematics.

How did your college training help you get to that position?

In my industry, as many others, a technical degree gets your foot in the door. Most major companies do not look at anyone without a degree and for some, you will find it harder to get a promotion with an advanced degree.

Any words of wisdom for college students entering the work force:

A college degree gets your foot in the door, after that, it is all up to you. Be confident with your abilities and network with other female professionals. This will help you stay focused and help you with your career.

Hobbies/Interests:

I enjoy playing golf, running and most all, spending time with my family. As a family, we like to travel and we enjoy our vacations.

Subscribe to SWE-RMS Email



Subscribe to the SWE-RMS Email list to get the latest information on events and programs of the Rocky Mountain Section.

Be the first to know about tours, programs, networking meetings, and conferences. Be on the list. Be in the know!

To subscribe to the SWE-RMS mailing list: email listproc@lists.colorado.edu with the message:

subscribe swe-rms last name, first name

You should receive an email confirmation.

To unsubscribe, email listproc@lists.colorado.edu. Leave the subject line blank, and type the following in the body of the message: unsubscribe swe-rms

Newsletter Sponsor

We thank Washington Group International, Inc., for their support in printing and mailing the SWE-RMS newsletter.

SWE Rocky Mountain Section Mini-Conference – Nov. 8, 2003

Professional Program

What a great day! It was so much fun seeing old friends, meeting new ones and exploring lots of ideas for our businesses and careers.

The professional sessions started with a chance to explore the ideas found in the book, "Smart Women Finish Rich." Sue Simmons led the session which was an eye opener with some statistics showing how many women are not prepared for retirement or managing their own finances. But the ideas presented should help us move forward with our financial planning for our families.

The panel discussion – "What are we doing?...How can I help?" was a great chance to learn more about how MESA, Girls, Inc. and Girl Scouts are reaching out to girls and encouraging math, science and technology interests.

MESA (Mathematics, Engineering Science Achievement) is a pre-collegiate program that focuses on ethnic minority and female students in grades 5-12. Their program includes career exploration, college campus visits, scholarships and academic support. MESA advisors in the schools provide academic counseling to members and tutoring resources are available. Please visit their website to learn more about MESA or volunteering opportunities at www.cmesa.org or contact Gloria Nelson at 303-556-8568, or gnelson@carbon.cudenver.edu.

Girls, Inc. is dedicated to preparing girls for responsible adulthood, economic independence and personal fulfillment. Girls, Inc. strives to build self-esteem and confidence, foster creativity and promote critical thinking skills. The organization offers workshops, after school programs, summer day camps programs that focus on six key areas, career and life planning, culture and heritage, leadership and community action, health and sexuality, self-reliance and life skills, and sports and adventure. One opportunity for volunteering is after school homework help at the Teen Center. For more information about Girls, Inc. you can explore their web pages at www.girlsincdenver.org or contact Colleen Colarelli at 303-893-4363 or ccolarelli.denver@girls-inc.org.

Linda Fuller, of Girl Scouts, Mile-Hi Council shared program opportunities with the group. The Mile-Hi Council serves over 36,000 girls from kindergarten through high school. Girls can learn how to create a balanced diet, launch a rocket, or create a Web page. SWE has for several years

worked with Girl Scouts presenting science badge workshops. Our members have worked individually with troops and several of the college sections have presented more formal programs on the sciences and engineering. Of course, we celebrated our own Jill Tietjen's becoming Chairperson, Mile-Hi Girl Scout Council Board of Directors. For more information on the Girl Scout program and volunteer opportunities, you can visit their website www.girlscoutsmilehi.org.

Our afternoon sessions started with Alesia Jackson presenting ways to participate in the Federal Procurement Programs. This was much more involved than I expected. The number of programs, all identified with Initials and numbers was mind boggling. If you are anticipating trying to work into the federal, state or city procurement programs I would contact Alesia at alesiajackson71@hotmail.com.

Our last session of the day was presented by Stacey Ebert of Key Bank on security for businesses and how to deal with the threat of identity theft. It is amazing how many ways those who want to steal from us can find a way to do so. I especially liked the reminder that having an out box for mail by the receptionist desk was an easy way for someone to steal your identity. Or that I really should be locking up my checks for my business. There were many other ideas that were simple but reminded me how often we are too trusting.

We ended with a networking session sharing cookies, fruit, cheese and crackers. It was a chance to interact with the speakers and students who had a separate program. If you didn't make it this year, I hope you can try and make the Rocky Mountain Section mini-conference next year.

Student Program

The student program was attended by 15 students representing the University of Colorado - Boulder, University of Colorado - Denver, Colorado School of Mines and the University of Wyoming. Christine Kruse, Erica Messenger and Eileen Hart presented a program on interning and interviewing. Sue Simmons repeated the program on Smart Women Finish Rich with an emphasis on the graduating women. Vanessa Bates, Estella Rummlein and Tina Lamers presented a program on their career projects, and Barb Kontogiannis, Alesia Jackson and Sandra Scanlon presented a program on Strategies for Combining Careers and Family. Practice Interviews were also available for several students as a prelude to the real thing later this year.

At the end of the conference seven student members and professional members went to Old Chicago for more libations and networking.

Three high school students attended the session on career projects, attended the presentation on high school courses needed for a career in engineering or technology presented by Faith Kay and toured the UCD campus. We hope to expand the high school program next year.

A special thanks to Heather Doty for her help in organizing the facilities, planning the student part of the mini-conference, speaker gifts, and nametags and table tents. A special thanks to the students from UCD for helping with the mailings. Anyone interested in helping with the mini-conference next year is invited to email me at Diana.dede@swe.org. The more hands we have helping, the lighter the load for any one individual member.

Submitted by Diana Dede

Colorado High School Robotics Teams Need Mentors!

Competing robots, explosive enthusiasm, creative ingenuity, cutting edge technology ... referred to as "equal parts NCAA finals, NASA launch, and rock concert."

As a mentor you become a critical success ingredient.

Colorado is launching its Inaugural FIRST Robotics Competition with more than 40 teams from 11 states, including Vermont, Florida, and Hawaii, bringing 1000+ high school students. Our Colorado high school robotics teams need mentors, and female role models are particularly needed.

For details, go to <http://www.coloradofirst.org/mentors/>

New Formulas for America's Workforce: Girls in Science and Engineering

A free book from the National Science Foundation

Find experts, get ideas to change the face of science and engineering – Hundreds of proven ways to engage students

For teachers, counselors, museums, schools, faculty, parents

Go to <http://www.nsf.gov/home/orderpub.htm> and request NSF 03-207 for book or NSF 03-208 for CD.

Also online at <http://www.nsf.gov/pubs/2003/nsf03207/start.htm>

***** Member Ads *****

Advertising from SWE-RMS members only will be accepted and published at no charge. Items may include your side business, "for sale" items, vacation rentals, pet adoptions, special event notices, whatever! All advertising requests must fit in a business card size space when printed in 10 pt. font and must be sent electronically to Schwall@worldnet.att.net by the newsletter deadline.

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Jennifer Halstead
Independent PartyLite Consultant
720-870-6749 or
Jennifer_Halstead@msn.com

The Denver Concert Band presents **Marches and More!** on Saturday, February 21, at 7:30 p.m. at Central Presbyterian Church, 1660 Sherman Street, Denver. This concert will feature Frank Kaderabek, former principal trumpet with the Philadelphia Orchestra, the Dallas Symphony, and the Detroit Symphony. Admission is \$5, except children under 12 who are admitted free. For more information, call 303-83-MUSIC or visit www.denverconcertband.org.

Congratulations to

Kitty Wang

on her February

wedding!



GE TECHNOLO



Hosted by
**The Society of Women Engineers –
Rocky Mountain Section;
Lockheed Martin Space Systems Company;
Junior Achievement of Rocky Mountain, Inc.;**
And
The Women’s Foundation of Colorado



The Society of Women Engineers (SWE) invites female middle school students who are interested in science, math, and technology to participate in the 2nd Annual **Exploring Engineering and Technology** event, **Monday, February 23, 2004, 9:00 a.m. - 1:00 p.m. at the Adam’s Mark Hotel, Denver.** This event is being held as part of National Engineers Week and will support the “Introduce a Girl to Engineering” Program. It is **free to all participants, but space is limited.**

The Issue: Girls of today are presented with gender biases and stereotypes that sometimes steer them away from careers or interest in the fields of math, science, engineering, computers and technology. We are working to change that reality. A coalition of organizations and businesses has come together to provide a space for girls to explore, to question, to do, and to learn. We want girls to walk out of this event inspired by the wonders of technology, and inspired by the incredible people who hold positions in those fields today.

We will provide a guide, for each group of 10-15 girls, who will escort them throughout the event, talk with them, and help them in the workshops. This interaction will give the students an excellent opportunity to learn and practice networking skills. Students will also obtain information on real life applications of engineering, as well as witness other professional women who chose a career in the field of math, science, engineering, computers or technology.

The **Welcoming and Opening Remarks** will set the stage for what the girls can expect to accomplish and enjoy throughout the day. Three **Interactive Workshops** will focus on hands-on displays and demonstrations of various areas of science, engineering and technology. Lastly, at **Lunch**, everyone will convene for closing remarks and raffle prizes. Each student will leave with a bag full of information on careers in engineering and technology, information on necessary courses to take in high school, scholarship and career guidance information from local minority and engineering organizations, as well as other give-aways.

Registration information will be available in October 2003. Due to space and funding constraints, our goal is to accommodate 1000 student registrants and 75 chaperones and is subject to change. Students may **not** be dropped off at the event. Students must be part of a school group or accompanied by an adult.

Any correspondence or queries related to this program may be directed via e-mail to sandra.scanlon@swe.org, by phone at (303) 973-7099, or by fax at (303) 932-7687.

For the most current information on this event, please visit our web site often for updates at <http://www.swe.org/SWE/RegionI/Sections/RockyMtn/swerms.html>.

University of Colorado at Denver Continuing Engineering Education Program

Call 303-556-4907 or visit www.cudenver.edu/engineer/cont and click on the **Course Information** link to learn more about these courses.

F.E. and P.E. Review Courses

NCES 8050: Professional Engineer's Examination Refresher Course for Electrical Engineering

NCES 8050. This course is a review of subject matter related to the National Principles and Practices of Engineering Examination for electrical engineering, with each four-hour Saturday morning session covering a separate exam subject area. The course is designed for those who will be taking the exam, or for those who would simply like a review of the included topics. A different instructor conducts each session and uses representative problems and supplementary material when necessary. John Camara's *Electrical Engineering Reference Manual for the Electrical and Computer Engineering PE Exam* and the companion *Practice Problems for the Electrical and Computer Engineering PE Exam* (6th edition, 2002, Professional Publications) are the recommended texts.

Class will meet eight Saturdays, February 7 through April 3, 2004; from 8:30 a.m. to 12:30 p.m. on the Auraria campus in downtown Denver. The cost is \$425, review course only. \$575; includes the review course and the recommended texts.

NCES 8070: Professional Engineer's Examination Refresher Course for Mechanical Engineering

NCES 8070. This course is a review of subject matter related to the National Principles and Practices of Engineering Examination for mechanical engineering, with each four-hour Saturday morning session covering a separate exam subject area. The course is designed for those who will be taking the exam, or for those who would simply like a review of the included topics. A different instructor conducts each session and uses representative problems and supplementary material when necessary. Michael Lindeburg's *Mechanical Engineering Reference Manual for the PE Exam* along with the *Solutions Manual for the Mechanical Engineering Reference Manual* (11th edition, 2001, Professional Publications) are the recommended texts.

Class will meet eight Saturdays, February 7 through April 3, 2004; from 8:30 a.m. to 12:30 p.m. on the Auraria campus in downtown Denver. The cost is \$425; review course only. \$575; includes the review course and the recommended texts.

Civil Engineering

Professional Development

NCES 8322: River and Floodplain Modeling with HEC-RAS version 3.1.1

This 3-day course presents the latest version of HEC-RAS and its applications to model streams, rivers, and floodplains under a flood flow condition. The first day will focus on how to compute water surface profiles for a river network; Day 2 will cover culvert and bridge hydraulics and modeling techniques; and Day 3 will illustrate how to manage HEC-2 data files and GeoRAS for a floodway analysis by various methods. Workshops are designed to have hands-on operations using HEC-RAS to analyze common and practical floodplain problems. Participants will have an opportunity to prepare input files and analyze output during workshops.

Class will meet Wednesday through Friday, March 17 through 19, 2004; from 8:00 a.m. to 4:30 p.m. on Wednesday and Thursday and 8:00 a.m. - 3:30 p.m. on Friday. It will be held on the Auraria campus in downtown Denver. Course instructors are Vernon Bonner, James C.Y. Guo, and John Liou. The cost is \$945.

NCES 8221: Urban Flood Channel Design

This two-day course presents state-of-the-practice channel design procedures and criteria for flood mitigation in metropolitan areas. The course not only covers design methodologies for various types of channels but also provides hands-on operations of the latest version of the UDCHANNEL and UDCULVERT computer models. This course begins with a review of basic open channel hydraulic principles and then extends their application to designs of grass channel, riprap reach, concrete channel, composite channel, curve channel, and channel transition. Culvert hydraulics and design charts are also discussed as an inlet and outlet device to a flood channel. Both steady flow condition for channel design and unsteady flow condition for hydrograph routing will be illustrated with numerical examples. This course will be presented as an intensive computer aided design workshop in order to deliver hands-on working knowledge.

Class will meet Thursday and Friday, May 20 and 21, 2004; from 8:30 a.m. to 4:30 p.m. at CU at Interlocken at Level 3 Communications in Broomfield. The course instructors are Ben Urbonas, James C.Y. Guo, and Ken MacKenzie. The cost is \$595.

Mechanical Engineering

Professional Development

NCES 8180: Geometric Dimensioning and Tolerancing

This course introduces the concepts of Geometric

Dimensioning and Tolerancing based on the ASME Y14.5 M - 1994 Standard. This two-day course consists of lectures and exercises using state of the art measuring equipment, problem solving, and case studies. The objective is to provide participants with the hands-on skills needed for the immediate application of GD&T concepts to engineering specifications.

Class will meet Thursday and Friday, March 18 and 19, 2004; from 8:00 a.m. to 5:00 p.m. on the Auraria Campus in downtown Denver. The course instructor is Rafael Sanchez. The cost is \$495.

NCES 8182: Advanced Geometric Dimensioning and Tolerancing

The objective of this course is to provide participants with an in-depth, hands-on practice of the ASME Y 14.5 GD&T Standard. This two-day seminar focuses on the application of advanced GD&T principles to parts and assemblies and consists of lectures and extensive exercises using state of the art measuring equipment, problem solving, and case studies. Basic knowledge of GD&T concepts is required.

Class will meet Thursday and Friday, May 20 and 21, 2004; from 8:00 a.m. to 5:00 p.m. on the Auraria Campus in downtown Denver. The course instructor is Rafael Sanchez. The cost is \$495.

Computer Science/Information Technology

Professional Development

NCES 8634: Computer Networking/Cisco CCNA Certification Track

The CCNA course provides materials and test questions that will help prepare you for the revised Cisco Certified Network Associate (CCNA) exam #640-801. In this program, you will learn the underlying foundation of networking concepts and progress to discuss higher-level topics and perform exercises that reinforce advanced information. The program consists of two preparatory courses. The first will emphasize an *Introduction to Cisco Networking Technologies* (INTRO) and the second *Interconnecting Cisco Network Devices* (ICND), v2.1.

Class will meet Monday and Wednesday evenings, January 26 through April 21, 2004; from 6:00 to 9:00 p.m. at CU at Interlocken at Level 3 Communications in Broomfield. The course instructor is Michael Kloberdans. The cost is \$3,995 and includes two recommended texts.

NCES 8636: Linux Basic System Administration

This hands-on course is focused on the tasks and responsibilities of a Linux system administrator. Students will practice basic system administration. This will include

adding users, printers, and applications. Students will track system performance and practice remote systems management.

Class will meet Tuesday evenings, February 17 through March 16, 2004; from 6:00 p.m. to 9:00 p.m., at CU at Interlocken at Level 3 Communications in Broomfield. The course instructor is Scott Krone. The cost is \$995.

NCES 8637: Linux Server Installation, Configuration, and Management

This hands-on course focuses on installing (and perhaps reinstalling) the Linux operating system and a handful of applications. Students will configure the kernel and swap between built kernels. Various applications will be installed using Red Hat Package Manager, and then upgraded and then removed. Other software will be installed from raw source code and compiled as root user onto the system.

Class will meet Tuesday evenings, April 13 through May 11, 2004; from 6:00 p.m. to 9:00 p.m., at CU at Interlocken at Level 3 Communications in Broomfield. The course instructor is Scott Krone. The cost is \$995.

Credit

CSC 1801: Java Programming Leading Toward Sun Certification

This course is an introduction to Java, the in-demand object-oriented programming language from Sun Microsystems. In the process of learning Java, students will also be introduced to basic concepts of object-oriented programming. The course is a solid introduction to the programming language constructs of Java and the core libraries that come with Java: `java.lang`, `java.util`, `java.awt`, `java.net`, and `java.io`. Students will be poised to develop the next generation of web-based applications and prepared to take the *Sun Certified Java Programmer 1.4* exam.

Class will meet Saturdays, February 21 through May 15, 2004; from 8:30 a.m. to 12:35 p.m. at CU at Interlocken at Level 3 Communications in Broomfield. The course instructor is Nicole Nemer. Students may earn 3 undergraduate credit hours. The cost is \$1,275. A Sun Kit and access to the Sun Academic Initiative Program, for additional online learning, are included in the tuition.

CSC 1802: Advanced Java Programming

This course develops advanced Java programming skills and concepts. Class will meet Thursdays, January 29 through May 6, 2004; from 5:30 to 8:30 p.m. at CU at Interlocken at Level 3 Communications in Broomfield. The course instructor is Nicole Nemer. Students may earn 3 undergraduate credit hours. The cost is \$1,275.



Who Ya Gonna Call?



	Name
OFFICERS	
President	Jennifer Halstead
President-Elect	Lori Stucky
Secretary	Heather Doty
Treasurer	Sandy Thwaites
Representatives	Faith Kay
	Sandra Scanlon
COMMITTEES	
Archives	OPEN
Awards	OPEN
Career Guidance	Tina Lamers
	Erica Messinger
Certificates of Merit	Faith Kay
Endowed Schol. Fund	Jill Tietjen
Essay Contest	Katheryn Coggon
Family Issues	OPEN
Fund Development	Kitty Wang
GS Mile High Council	Diana Dede
GS Mtn. Prairie Council	OPEN
Investment	Jill Tietjen
Job Bank	Nancy Nicholson
Membership	Tracey Whaley
Newsletter	Tricia Schwaller
P.O. Box	Sandra Scanlon
Professional Development	OPEN
Programs Coordinator	Isobel Parker
Publications Coordinator	OPEN
Scholarship	Barbara Kontogiannis
	Mary Ann Tavery
Science Fair	Gina Holland
Section 50 th Anniversary	OPEN
Speakers Bureau	OPEN
Student Section Coord.	Heather Doty
Web Page Master	Sandra Scanlon
	Chris Kruse
CO School of Mines	Lori Stucky
CSU	Lucy Burris
Metro State	Cheryl Signs
CU Boulder	Aditi Kapoor
CU Denver	Jennifer Trotta
U of Denver	Jennifer Halstead
U of Wyoming	Judy Nelson
U of Southern Colorado (Pikes Peak Section)	Jane M. Fraser
SWE Reps	
CEC (CO Eng'g. Council)	Jackie Schirmer
CWLC (Colorado Women Leadership Coalition)	Faith Kay
	Kristy Schloss

Calendar of Events

For complete details, directions, and more, visit the RMS website calendar.

February 5, 2004	Post-Holiday Event at Heritage Square Music Hall, Golden (Details on page 1)
February 14, 2004	SWE-RMS Board Meeting, Rockwell Automation, Golden, 9 a.m. – 11:30 a.m.
February 20 – 21, 2004	SWE Region I Conference, Colorado Springs, Colorado
February 23, 2004	Exploring Engineering and Technology Event (Details on page 8)
February 27, 2004	Colorado Engineering Council Engineers Week Dinner and Order of the Engineer Induction
March 1, 2004	Deadline for SWE-RMS March/April 2004 Newsletter (anticipated release date: March 29)
April 16–17, 2004	NCEES Exams – April 16 (PE, PLS), April 17 (FE, FLS)
May 2, 2004	Deadline for SWE-RMS May/June 2004 Newsletter (anticipated release date: May 31)
Week of May 3, 2004	SWE-RMS Awards and Recognition Event (Details TBA)
May/June 2004	“Petticoats and Slide Rules” comes to our section!
June 25, 2004	SWE-RMS Membership Picnic (Details TBA)
July 3, 2004	Deadline for SWE-RMS July/August 2004 Newsletter (anticipated release date: July 31)
October 13-16, 2004	SWE National Conference, Milwaukee, Wisconsin
October 29-30, 2004	NCEES Exams – October 29 (PE, PLS), October 30 (FE, FLS)
November 2-5, 2005	SWE National Conference, Anaheim, California
October 11-14, 2006	SWE National Conference, Kansas City, Missouri

Society of Women Engineers
 Rocky Mountain Section
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<http://www.swe.org/SWE/RegionI/Sections/RockyMtn/swerms.html>