



## March is National Women's History Month

To address the absence of information about women in America's schools, the National Women's History Project led a movement to have Congress designate a celebration to recognize women's historic achievements. The goal was to ensure that information about the myriad ways women have changed America would be part of our children's education.

In 1980, President Carter issued the first Presidential Proclamation calling on the American people to remember the contributions of women. By 1987, fourteen governors had declared March as Women's History Month, and that same year, Congress and the President followed by declaring March as National Women's History Month.

This year's theme, *Women: Builders of Communities and Dreams*, honors the spirit of possibility and hope set in motion by generations of women in their creation of communities and their encouragement of dreams.

Community comes in many forms, and dreams change, expand, and are sometimes fulfilled. *Women: Builders of Communities and Dreams* honors women for bringing communities together and restoring hope in the face of impossible odds.

The purpose of women's history is not to idealize women. On the contrary, the stories of women's achievements present an expanded view of the complexity and contradiction of living a full and purposeful life.

Learning about the extraordinary achievements of women helps diminish the tendency to dismiss and trivialize who women are and what they accomplish. In celebrating women's historic achievements, we present an authentic view of history. The knowledge of women's history provides a more expansive vision of what a woman can do. This perspective can encourage girls and women to think larger and bolder and can give boys and men a fuller understanding of the female experience.

*(continued on next page)*

## Message from the President

It has been a great March so far. I attended the Regional Conference in KS. What a great experience! GESET was on March 10 with over 1200 girls attending. We have had snow in the metro area. Things are starting to thrive for the spring. Hope things are going well for everyone.

### 2006 Region i Conference

Region i Conference was held Mar 3-4 in Manhattan, KS. Members from our Section in attendance were Heather Doty, Faith Kay, Aspen Obering, Sally Rautio, Lori Stucky and Candy Sulzbach. We had a fantastic time and have come back rejuvenated. We attended various sessions. These included a car care question and answer session; an investment session titled Smart Women Finish Rich; Six Sigma; Diversity-inclusiveness and breaking down the barriers; Gender Roles in the workplace-body language may not always be interpreted the way it was meant; Communications-professional protocol for email, telephone and face to face conversation; and SWE Succession planning-see the notice for elections and committees.

Sallie Keller-McNulty is the Dean of Engineering at Rice Engineering. She spoke on the role of an engineer evolving into a position of responsible new stewardship. The focus is to promote better technologies and decision making.

During the Professional and Joint meetings discussions included needing to develop more interaction between the Collegic and Professional Sections. Student upgrades and joint events were a big topic as was the BHAG. BHAG-Big Huge Audacious Goal is being changed to establish the vision and therefore update the Mission Statement. There will be a survey available for input as well as a forum posted on the website. Watch the website for details.

### 2006 National Conference, Kansas City, MO

2006 National Conference will be held in Kansas City, MO in November. Many volunteers are needed so please consider volunteering. Faiths Kay is compiling a list of attendees so please email her if you are planning on attending the Conference. Faith's email is [faith.kay@swe.org](mailto:faith.kay@swe.org). Visit the website at [www.swe.org/events](http://www.swe.org/events). *(continued on next page)*

## Message from the President

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### 2007 Region i Conference, Golden, CO

The women of the Colorado School of Mines Section in Golden will host the 2007 Regional Conference. The Professional Section will also be helping the women plan the conference. If you are interested in helping please contact Heather Doty at [heather.doty@swe.org](mailto:heather.doty@swe.org).

### Opportunities Available

Regional positions open are Lieutenant Governor, Nominating Committee member. We are also taking nominations for RMS officers and committees, please feel free to nominate someone or yourself. If you are interested in an office or committee, please contact Lori Stucky at [lori.stucky@wgint.com](mailto:lori.stucky@wgint.com). Elections at the National level are also coming up. All elections will be held in April. Please watch the newsletter and emails for further details.

## Hold the Date for SWE Fundraiser

We will be participating in the Spring Spin fundraiser at Six Flags Elitch Gardens again this year. Money raised will help fund the Girls Exploring Science, Engineering & Technology (GESET) event.

Please hold this date and more information will follow on the tickets.

- **Park:** Six Flags Elitch Gardens (Denver, CO)
- **Event Dates:** Sunday, April 23
- **Hours:** 10 a.m. to 8 p.m.
- **Ticket Price:** \$20.99 (SWE gets \$5 of each ticket)

This event is held annually prior to the park opening. It is just a day for nonprofit organizations. Everyone who attends gets:

- 1 full day of unlimited rides and incredible attractions
- A FREE ticket to return to Six Flags Elitch Gardens during September (for the Westword Music Festival) or October (for Fright Fest)
- Appearances by Looney Tunes characters
- Opportunity to upgrade to a season pass for only \$29.99.

Tickets will be available February 22, 2006. Please send the attached flyer (see page 9) to Joan Graff for tickets.

## Newsletter Sponsor

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

## Classroom Speakers Project Seeking Volunteers

The Classroom Speakers Project Manager for the Denver Public School District, Mary Ann Mayo, is looking for classroom speakers with topics geared at kids in elementary and middle school. Below is additional information about her program. If you have any questions or would like to be included in the catalog, please contact Mary Ann directly.

Community Resources, Inc. has served Denver Public Schools for over 33 years. The easiest way to understand the four programs that are offered is to visit the website at [www.communityresourcesinc.org](http://www.communityresourcesinc.org). The program is constantly searching for new, interactive, and hands-on programs for elementary and middle school students. These programs are included in a catalog that is sent to teachers in the fall and they can submit requests throughout the year.

*Mary Ann Mayo*

*Community Resources, Inc.*

*Classroom Speakers Project Manager*

*(303) 782-0975*

*MaryAnn\_Mayo@dpsk12.org*

## National Women's History Month

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How are our children, girls and boys alike, going to understand the importance of women to American culture and history if their education includes little or nothing about the significance of women's contributions?

We know from research and from anecdotal studies that learning the stories of women's success, talent, and accomplishments expands a sense of what is possible for girls and women. Information about women and their successes gives males and females alike a perspective that challenges some of our cultures' most unconscious and archaic assumptions about women.

Thus, women's history becomes a story of inspiration and hope. A story of courage and tenacity. A story of promise, possibility and purpose.

Women's history is our nation's story. It is the story of how women built communities and inspired and nurtured dreams and how they will continue to do so.

For more information contact The National Women's History Project website at [www.nwhp.org](http://www.nwhp.org) or email at [nwhp@nwhp.org](mailto:nwhp@nwhp.org).

*Submitted by Deidra Dissen Swartz*

## **Member Profile:**

### **Katrina Winborn**

**City of residence:** Fort Collins

**Family:** My husband, Calvin Miller

**Member grade:** Professional

#### **How long have you been a member of SWE? How did you become involved in SWE?**

I've been a SWE member since 1994, I think. I wasn't a member of SWE in undergraduate school; if there was a student SWE section at my college (University of Arkansas), then I wasn't aware of it. I first heard of SWE after I started my first job out of college, in Minnesota. One of my co-workers was involved in SWE and introduced me to it. I went with her to some meetings, and then agreed to help out with a few events, and I soon realized that I really admired what SWE is all about. So, I joined SWE and became active in the Minnesota professional section. I have to credit my friend in Minnesota for getting me involved right from the start. Her enthusiasm and energy inspired me to get involved and try to help out wherever I could.

#### **What positions have you held?**

In Minnesota, I was the Scholarship Chairperson for a few years. At that time, the MN section didn't have a scholarship program, but they had plans for creating a scholarship program. Several in the section had some well thought-out ideas; all I did was provide a regular meeting schedule and a place to meet so that we could get all their ideas down on paper. I moved from Minnesota to Colorado before the first scholarships were awarded, but when I left, we had created a pretty solid program that was well on its way. I've since learned that the MN section's scholarship program is up and running, although I don't have any statistics on the number of scholarships or the amount of money awarded since the program began.

I was also on the Council of Representatives (COR) for a year, representing the MN section.

In Colorado, the only position I've held is the one I have now, which is also on the COR.

#### **What have you enjoyed most about SWE? Why?**

I've gotten a tremendous amount of satisfaction from helping with scholarship programs. While in MN, I organized judging for half of the national SWE scholarships (the Los Angeles section judged the other half), and I was very pleased to be involved with something that so directly

helps young girls become engineers. After I moved to Colorado, before my move to Louisiana, I helped one year judge the Colorado scholarship entries. It takes quite a bit of time to judge scholarships, but the whole experience is very rewarding. Since then, I've heard of various other programs that local SWE sections have to encourage and help young girls and teenagers toward engineering and science careers – for example, the Rocky Mountain Section has an active scholarship program, the essay contest for young girls, and works with high schools to award Certificates of Merit. I've found that over the years, this – the encouragement and assistance to future women engineers - has consistently been the aspect of SWE that I enjoy most.

Another highly enjoyable aspect of SWE, within the past couple of years, is the professional development opportunities that are coming about through the web seminars. I find this to be a great way to obtain some training that is convenient and easy to fit into a busy schedule, and I find the topics to usually be rather interesting and informative.

#### **What is your current occupation/title?**

I work for McVehil-Monnett Associates, Inc. - a small environmental consulting firm in Englewood. I work as an environmental engineer specializing in air quality issues, and my title is Sr. Project Manager. I'm extremely fortunate in that my company allows me to work from my home office in Ft. Collins, and on average, I spend 1 or 2 days in the Englewood office every 2 weeks. It's not common to find an employer who is willing to allow telecommuting, so I consider myself to be very fortunate.

#### **How did you get to that position?**

Wow, that's a loaded question! I think that nearly every job I've had since I started working in high school has provided me with valuable training and experience that lends itself well toward the next job. Specifically, I got to this position after working for many years as an environmental engineer in the petroleum refining and electrical utility industries. I started my career as a process engineer, but moved on after a few years into the environmental engineering field and haven't looked back. My experience in process engineering lent itself well toward air quality work, and my work in industry lends itself well and provides insight with my consulting work. I'm pretty sure I got to my current job/position with McVehil-Monnett by having a good day where all the planets and stars were aligned perfectly, and I was in the right place at the right time – I learned of an opportunity to work with them, and I jumped at it.

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### What was your college training?

I have a bachelor's degree in chemical engineering from the University of Arkansas (hence, the experience as a process engineer), and a master's in environmental policy and management from the University of Denver.

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

How did your college training help you to get to that position? I might have covered this in an earlier question.... essentially, chemical engineering was my interest in college, but a summer internship steered me toward the environmental engineering side of things. I started my career as a process engineer, because everyone said that was the wise route to go. Wouldn't you know, they were right! I continually find that my time as a process engineer, although not the most enjoyable time of my life, taught me a lot of basic engineering and design principles that are invaluable to my work with air quality issues, since often, air quality issues are dictated by process design and operation.

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

Be willing to "do your time" with the first years of your career (to a reasonable extent), and be patient when it comes to your career path. The first job out of college might not be the perfect job, but you will learn something from it that you can take with you into the next job and throughout your career. And like me, it might take you a while to realize it, but you might some day happily realize that it was those first few, difficult years, that provided you with a solid foundation and/or invaluable skills that allow you to grow in your career. It took me several years to find what I truly enjoy doing, and I think a lot of engineers go through that. Be diligent, and don't give up!- keep working, and thinking, and planning for the future, and you will find your perfect niche in the work-world.

### Hobbies/interests:

I love hiking! Also, my husband has managed to get me pretty interested in downhill skiing, and we're both getting more involved with mountain biking. I play clarinet, and am currently trying to get back into regular practice. I hope to win a spot in some sort of community amateur group within a year, whether it's a band or orchestra, or some other ensemble.

## 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](mailto: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](mailto:listproc@lists.colorado.edu), and leave the subject line blank, and type the following in the body of the message: unsubscribe swe-rms

## SWE-RMS Listing of Volunteer Opportunities

**SWE-FUNdraiser for GESET Event**  
Sunday, April 23 from 10 a.m. to 8 p.m. at  
Six Flags Elitch Gardens (Denver, CO)  
Ticket Price: \$20.99 (SWE gets \$5 of each ticket)  
Contact: Joan Graff

**2007 Region i Conference at Colorado School of Mines**  
The SWE-RMS professional section will be helping the students plan the conference. Please contact Heather Doty at [heather.doty@swe.org](mailto:heather.doty@swe.org) to volunteer

### Classroom Speakers

The Denver Public School District is seeking classroom speakers with topics geared towards kids in elementary and middle school. Visit the website at [www.communityresourceinc.org](http://www.communityresourceinc.org) or contact Mary Ann Mayo by email at [MayAnn\\_Mayo@dpsk13.org](mailto:MayAnn_Mayo@dpsk13.org) or by telephone at

## Bulletin Board

### Worm Castings

I have a fair amount of worm castings to give away from when I rearranged the trays in my Can-O-Worms. This material can be used pure as organic fertilizer or as an additive to potting mix. Contact me if you would like to try it. I am not selling it but if you find it to be of value, you can make a contribution to SWE or GESET.

Contact: Liz Black

## Discussion Board

**This newsletter's question:** I am a recent college grad working in my first engineering position, what are some good career networking tips?

*Please email discussion responses or topic ideas to Sandra.Wiese@gmail.com.*

**Last newsletter's question:** How do others balance their work and personal lives? This is a constant struggle for me. I can do well in one but the other suffers. I would love to hear how others do it.

*--Submitted by Joy Kocar*

### Responses:

"What a great question, Joy! I think that one of the key things I've found in my own personal experience as a software engineer and now, in working with my coaching clients is making sure that you take the time to take care of yourself above all else. I know that we hear that saying all the time...and it typically feels over-used and counter-intuitive, but it really does work. You can't take care of others or balance all your work and life commitments very well, if you are not healthy, grounded, and energized! It is important to get into the habit of doing something for yourself ~ something that grounds and centers you ~ each and every day. Even if it's only ½ hour each day....you will feel so much better for having spent that time...and you'll find you have a lot more clarity around balancing the rest of your life."

"As a useful resource, please feel free to check out a FREE weekly phone call that I facilitate (called 'A Moment's Pause'), designed to help women ground themselves and focus their attention for the week ahead ([www.spiraloflife-coach.com](http://www.spiraloflife-coach.com)).

You can call from home, you can call from your desk...it's just a great way to take a little 'me' time!"

*--Submitted by Laurie Valaer, Spiral of Life Coaching*

"I perhaps had an easier time than others because I took on different roles in sequence. I got married while in grad school. For next 6 years the two of us both worked and we chose not to spend both incomes. After our son was born, my husband continued working and I became the at-home parent for our two children and did community volunteer work. This lasted 18 years. I resumed work and have worked most of last 6 years."

"One has to have realistic expectations. Weeds in the lawn or infrequent vacuuming of the carpets do not bother me. I spend time where it feels most fulfilling, and in practice this means that, because I like to cook, even when I am working we more often eat meals from scratch than eating out or using convenience foods. It is good to get help from other family members. Even though there will be resistance, it is good for all involved. Our now-adult children live with us and they and my husband each fix one evening meal a week. That may not seem a lot, but I have difficulty letting go and asking for help and seen in that light, the sharing of responsibility for meal preparation is a success that I can celebrate."

*--Submitted by Liz Black*

"Indeed, balancing work and personal lives is a great challenge. A few years ago, I was a stay-at-home-mom and volunteered to be on our homeowners association board, serve on the board of the Rocky Mountain Section of SWE, and serve as a director on the Colorado Engineering Council. Since I was at home with our two children, I could achieve balance with this volunteer load."

"Eighteen months ago, a friend told me it was time to go back to work. Adding 35 hours/week into the fray made me crazy. So, I have worked hard to fulfill my commitments, yet not volunteer to renew my volunteer responsibilities. At my worst, I did it all poorly. At my best, I did a few things well for a few days."

"Balancing work and life is hard. Some days or weeks I am more involved with work, then it shifts to working on life. I can honestly say that I cannot "balance" them, i.e. spend some time on each responsibility every day. But, I can concentrate for short time periods on one thing, then another, making sure each responsibility is touched every two weeks or so. Obviously, I still have to do a daily balance on work hours and husband/kid hours. This included reading to each child every night."

"So, sometimes I would do the homeowners association tasks for two nights, then work on SWE things for two or three nights. Take a break for the weekend. Next week would include making calls for the engineering council. Then cycle back to the homeowners association. This system was the best I could do at the time. When the kids told me "you're never home", I took a few evenings off to be with them."

## Discussion Board (cont.)

"Beyond this, get help from the outside. My husband cooks dinner every night because he likes to do that. When he doesn't want to cook, we go out for dinner. We have in the past had a cleaning lady. Offload what you can release from your need to control. A great website is flylady.net. She explains how to use routines so you can keep some of your life in order without even thinking about it. The website is free."

"Good luck to you in this challenge. Think out of the box, then hide inside it for a nap!"

--Submitted by Faith Kay, Governor, Region i

"First is to prioritize your life. Is the housecleaning that important or can you live with a little dust, if you can't live with the dust can you afford to have someone come in once a month to help with the big cleaning? Train your family to help with little things around the house. Doing one cleaning chore a day means the weekends are free for fun."

"Running errands on the way to work, lunch, after work. Plan your route. Use relationships to pick up necessities. Move your Pharmacy, Garage for car repairs, etc. close to your work if possible, use the dry cleaner 'Pressed for time' they pick up and deliver and last but most important delegate."

"Use online services as much as possible to avoid additional errands, bill paying, automatic deposits, etc."

"Hope this is helpful advice."

--Submitted by S. Denise Pape, PE, LEED AP Electrical Project Manager

"I try to view the balance of work and personal life over a longer period of time. So while I rarely achieve a good balance in a given day, or week, or month, overall I manage a good balance of both. My work tends to have big swings in workload. When I am feeling overworked and missing out on my personal life, I know that if I just ride through the heavy workload, there will be a lull on the other side. When I hit those work lulls, I do not waste any time worrying about the lack of work, and I instead focus on my personal life spending extra time with my children, getting some exercise, and finding my friends again. For the most part, my family and friends have learned to adjust to these giant cycles in my life and we all take it in stride. However, it takes some strong friendships and understanding family members."

"Rarely do any of us feel like we have actually achieved a good balance because there is always one more thing to do in your personal life and one more career-enhancing event. One very important and oft-forgotten aspect of this struggle

is the lack of kudos. Rarely do any of us tell each other what a good job we are doing at balancing our professional and personal lives. So my last recommendation is to find a friend who will give you the encouragement to try and occasionally tell you "atta girl!"

--Submitted by Katheryn Jarvis Coggon

## University of Colorado at Denver and Health Science Center

### March E-News (Early Edition)

Welcome to the University of Colorado at Denver and Health Sciences Center, downtown Denver, (CU-Denver) Continuing Engineering Education electronic newsletter! Receive up-to-date information about educational opportunities via our monthly e-news. We will remind you of upcoming courses that have been recently added to the schedule or scheduling changes.

Please share this e-news with your co-workers and friends who may be interested in our programs. We appreciate you sending this information to other engineers who are not in our database of contacts!

New subscribers can sign up for a free newsletter by sending an e-mail to Colleen.Anderson@cudenver.edu or call us at 303-556-4907. We would like your postal mailing address as well to send you a brochure each semester. To unsubscribe, send a reply to this e-mail address and ask to be removed from the e-mail newsletter.

#### MARCH COURSES (In order by start date)

#### **NCES 8381: Constructing and Rehabilitating Dams in Colorado**

**Fridays, March 3 and 10, 2006; 10:00 a.m. - 4:00 p.m.; \$395**  
NCES 8381. Students learn dam rehabilitation techniques, failure modes and current issues surrounding dams. Participants develop proficiency with state dam applications and the ability to evaluate if a dam meets current regulations in the State of Colorado.

This course provides participants with the following four items:

- \* an understanding of the current status of dams in the United States
- \* an understanding of failure modes and how to prevent them
- \* an understanding of the State of Colorado dam safety and regulatory requirements
- \* an ability to understand and complete the appropriate forms to submit to the State of Colorado for a new dam or to retrofit a dam. Which forms to use for your structure and when to use them.

We will also discuss the pros and cons of jurisdictional versus non-jurisdictional dams.

#### Prerequisites

Basic understanding of hydraulics.

#### Who Should Attend

This course is designed for water resource professionals involved in dam design or have clients who are dam owners.

More info and registration form located at [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont). Click on Course Information.

#### **NCES 8182: Advanced Concepts of Geometric Dimensioning and Tolerancing Friday Afternoons, March 10 - 31, 2006; 9:00 a.m. - 4:00 p.m.; \$695**

NCES 8182. The goal of this 4 session, 24 hour advanced course is to expand knowledge in the interpretation and application of geometric tolerances and practices as defined by the ASME National Standard (Y14.5M-1994). Tolerances or form, orientation, location, runout and profile are covered.

#### Who Should Attend

GD&T is a language used by the International community, therefore a basic understanding of its use is critical in a global manufacturing economy. This course is designed for anyone who works in the engineering, manufacture, or inspection of mechanical components and seeks further knowledge of GD&T.

#### Prerequisites

A fundamental understanding of basic drafting and blueprint reading skills is required for the course.

More info and registration form located at [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont) Click on Course Information.

#### **NCES 8197: Product Invention and Commercialization Friday, Saturday, and Sunday, March 17 - 19, 2006; Friday/Saturday, 8:00 a.m. - 5:00 p.m. and Sunday, 8:00 a.m. - 12:00 noon; \$695**

NCES 8197 covers design and commercialization of products that are mechanically-based, presenting the use of CAD (Computer Aided Design) for both promotion, patent applications, as well as prototype and manufacture. Students discuss fundamentals of engineering analysis for safety. A patent agent will talk about protecting your intellectual property. Additionally, a successful inventor who has taken a product through commercialization will submit his experiences. Finally, students will conceptualize a sample product.

#### Who Should Attend and Course Benefit

Individuals who want to invent or who are in the process of inventing mechanically-based products. Students are exposed to the complete invention process. They see the engineering tools available to prove feasibility and safety of a design as well as the CAD tools available to create presentations and drawings for prototyping and production. The Patent portion of the short-course explains how to protect and position the invention for commercialization. An inventor describes his own journey from concept of a product, through patent and commercialization, and finally acquisition by a larger company. Participants actually invent a product in class.

More info and registration form located at [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont) Click on Course Information.

#### **NCES 8325: Advanced River Modeling with HEC-RAS Monday and Tuesday, March 20 and 21, 2006; 8:30 p.m. - 4:30 p.m.; \$595**

We must know 21 days out from this course if it has adequate registration to run, as the teacher is from California. If you wish to attend, please register now, or it will be canceled due to low enrollment. We need at least 2/3 of the class to register by February 28 in order to approve a flight for the instructor. Thank you!

NCES 8324. This two-day course is a sequel to the three-day River and Floodplain Modeling with HEC-RAS course. The steady-flow workshop presents the major program options, not covered in that basic course, and advanced bridge-modeling topics.

#### Who Should Attend

Experienced water resource professionals who are involved in hydrology, hydraulics, urban drainage, floodplain management, river modeling, detention storage, culvert crossings, and bridge designs would benefit from this course.

#### Benefit of Course

Participants will know how to apply HEC-RAS to analyze difficult hydraulic conditions in natural and constructed channels, with an emphasis on modeling hydraulic structures.

#### Prerequisites

Attendees should have a basic knowledge of HEC-RAS and steady-flow application experience. Experience with unsteady flow is not required. Prior attendance in a basic HEC-RAS course would be helpful, but not required.

More info and registration form located at [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont) Click on Course Information.

#### **NCES 8326: Unsteady-Flow Modeling with HEC-RAS Wednesday, Thursday and Friday, March 22 - 24, 2005; 8:30 a.m. - 4:30 p.m.; \$895**

We must know 21 days out from this course if it has adequate registration to run, as the teacher is from California. If you wish to attend, please register now, or it will be canceled due to low enrollment. We need at least 2/3 of the class to register by February 28 in order to approve a flight for the instructor. Thank you!

NCES 8321. This course provides the necessary information for you to move from steady-flow applications with HEC-RAS to competent unsteady-flow modeling. The HEC-RAS computer program provides one-dimensional steady and unsteady-flow modeling, utilizing the same geometric data model. Thus, you can develop a model and test it using traditional steady-flow analysis, and then apply it to model unsteady flow situations. Because of its capability to simulate flow in a complex network of open channels, including lateral flow to off-channel storage, the program provides quasi-two-dimensional modeling.

#### Who Should Attend

Experienced water resource professionals who are involved in hydrology, hydraulics, urban drainage, floodplain management, river modeling, detention storage, culvert crossings, and bridge designs would benefit from this course.

#### Benefit of Course

The unsteady-flow capability in HEC-RAS allows users to perform analyses where storage and the dynamic aspects of floods are important. Users can model time varying flow and stage, storage effects on the flood wave, and looped stage-flow relations - typical in mildly sloped channels.

#### Prerequisites

Attendees should have a basic knowledge of HEC-RAS and steady-flow application experience. Experience with unsteady flow is not required. Prior attendance in a basic HEC-RAS course would be helpful, but not required.

More info and registration form located at [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont) Click on Course Information.

**NCES 8020: Professional Engineer's Examination Refresher Course for Civil Engineering: Boot Camp Thursday, Friday, and Saturday, March 23 - 25, 2006 and March 30 - April 1, 2006; Thursdays, 1:00 p.m. - 5:00 p.m., Fridays/Saturdays, 8:00 a.m. - 5:00 p.m.; \$525**

NCES 8020. This intense 40-hour course is a review of subject matter related to the National Principles and Practice of Engineering Examination for civil engineering. Boot Camp is fast-paced and focused on problem-solving with

sample test questions from Michael Lindeburg's *Practice Problems for the Civil Engineering PE Exam*. This course is designed for students who have already begun a thorough review of civil engineering fundamentals and need an accelerated practice session. A different instructor drawn from University faculty and industry conducts each topic.

PE Examination Date: The National Principles and Practice Examination is given on Friday, April 22, 2006. If you plan to take this examination, you must have your completed application on file with the State Board Office approximately 19 weeks prior to the exam date. For further information on the exam, please call the State Board of Engineers Office at (303) 894-7788.

More info and registration form located at [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont) Click on Course Information.

### APRIL COURSES

**NCES 8195: Time Dependent Behavior of Polymers on Design**

**Thursday and Friday, April 6 and 7, 2006; 8:00 a.m. - 5:00 p.m.; \$495**

**NCES 8236: Introduction to Floodplain Management**

**Thursday and Friday, April 27 and 28, 2006; Thursday, 8:00 a.m. - 5:00 p.m. and Friday, 8:00 a.m. - 12:00 noon; \$450**

### MAY COURSES

**NCES 8196: Probabilistic Machine Design**

**Thursday and Friday, May 4 and 5, 2006; 8:00 a.m. - 5:00 p.m.; \$495**

### IN HOUSE OFFERINGS

We can create succinct or extended versions of our standard course offerings and bring them to your company at times that are convenient to your staff. Your company simply supplies the room and ten or more students! Call us at 303-556-4907 to find out how we can meet specific educational needs at your company.

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*Please contact us at:*

*PHONE: 303-556-4907*

*FAX: 303-556-6688*

*WEBSITE: [www.cudenver.edu/engineer/cont](http://www.cudenver.edu/engineer/cont)*

*EMAIL: [heidi.utt@cudenver.edu](mailto:heidi.utt@cudenver.edu)*

*ADDRESS: PO Box 173364, Campus Box #115, Denver, Colo. 80217*



**Society of Women Engineers – Rocky Mountain Section**

**JOIN US FOR THE SIX FLAGS ELITCH GARDENS FUNDRAISER**

***SPRING SPIN: ONE GOOD TURN TO BENEFIT ANOTHER™***

**SUNDAY APRIL 23, 2006 ♦ 10:00 a.m. to 8:00 p.m.**

We're putting the FUN back into FUNdraising. Be among the first to enjoy a new season of fun at Six Flags Elitch Gardens while helping us raise funds for our non-profit organization

**Here's how it works:**

We have been selected as one of several groups participating in the sale of admission tickets to the fundraiser Spring Spin: One Good Turn To Benefit Another™ held in conjunction with the Park's opening. Tickets are just \$20.99. General admission is \$38.99. Including the FREE ticket to return to Six Flags Elitch Gardens in September or October, 2006 the total value is over \$75! Each ticket we sell earns \$5 for our organization. The more tickets we sell, the more money we raise.

**Everyone who attends receives:**

- ❖ *A full day of unlimited rides and incredible attractions – there's something for the whole family*
- ❖ *A FREE return ticket to visit the park any operating day September 1 - October 15, 2006*
- ❖ *Opportunity to upgrade to a season pass for only \$29.99, plus tax!*

*ORDER YOUR TICKETS FROM US TODAY*

To order tickets, complete and mail with a check or money order to:

Joan Graf, 7990 S. Cedar Circle, Littleton, CO 80120

Name

Address

City

State

Zip

Number of tickets ordered

at \$20.99 each. Amount enclosed \$

Please make check payable to: Society of Women Engineers – RMS

Please allow one week for your tickets to be mailed to you. Thank you!



## Who Ya Gonna Call?



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Please call Sandra Wiese at

or send e-mail to [sandra.wiese@gmail.com](mailto:sandra.wiese@gmail.com) with corrections.

SWE Rocky Mountain Section Website: <http://www.swe.org/SWE/RegionI/Sections/RockyMtn>

## Calendar of Events

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

March 2, 2006	Ft. Collins Networking Night: TBD, check your SWE-RMS email
March 3 – 4, 2006	Region I conference, Kansas State University, Manhattan, Kansas
March 10, 2006	GESET at the Denver Convention Center
March 15, 2006	Boulder/N. Denver Networking Night: 6pm Southern Sun Pub & Brewery - Boulder
March 16, 2006	SWE-PPS CTTI Speaker (TBD)
March 18, 2006	MATHCOUNTS State competition at Colo. School of Mines
March 30 – April 1	FIRST Robotics volunteers needed at Univ. of Denver Ritchie Center
April 6, 2006	Ft. Collins Networking Night: TBD, check your SWE-RMS email
April 19, 2006	Boulder/N. Denver Networking Night: 6pm Pumphouse Brewery - Longmont
April 21 – 22, 2006	NCEES Exams – April 21 (PE, PLS), April 22 (FE, FLS)
April, 23, 2006	SWE-FUNdraise for GESET Event at Six Flags Elitch Gardens (Denver, CO)
May 4, 2006	Ft. Collins Networking Night: TBD, check your SWE-RMS email
May 17, 2006	Boulder/N. Denver Networking Night: 6pm C.B. & Potts - Westminster
October 11 – 14, 2006	SWE National Conference, Kansas City, Missouri

Society of Women Engineers  
Rocky Mountain Section  
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