



"Changing Our World: True Stories of Women Engineers."

This book was issued in February 2006 and features profiles of a large number of women engineers including Kristy Schloss and Jill Tietjen. It is a beautiful, wonderfully written book that really relates engineering to real life (chocolate, potato hips, etc.) Kristy and Jill are also featured on the cover in a picture together. Also in the book from Colorado are Connie King (from the Pike's Peak Section and a former President of SWE-RMS) and JoAnn Silverstein, a member of RMS and a professor at CU-Boulder. It is published by the ASCE Press (American Society of Civil Engineers).

Visit the website for more information at
<https://www.asce.org/bookstore/book.cfm?book=5861>

Press Release: CHANGING OUR WORLD New Book Profiles Women Engineers Shaping Today's World and Inspiring a New Generation

Reston, Va.—Engineering is the backbone of the technology that drives our world, from television to transportation, from automobiles to architecture. Why is it then, when so much of our world depends on engineering for its advancement and sustainability, society doesn't encourage young women to become engineers?

On Tuesday, February 21, 2006—during Engineers Week—the Extraordinary Women Engineers Project Coalition (EWEP) will launch *Changing Our World: True Stories of Women Engineers* (by Sybil Hatch; published by the American Society of Civil Engineers), during a reception at the National Press Club from 2:30 to 4:30 p.m. The first product of the coalition's long-term project, *Changing Our World* is a colorful, 256-page celebration of the contributions of women engineers to every aspect of modern life. Through its real-life stories, the book will serve as a fresh perspective on engineering for young women and their parents. It will also serve as the basis for the educational outreach resources developed during the next phase of the Coalition's project.

"So many young women believe that engineering is just a career for boys who love math and science. As a creative person, an engineer and a woman, I find that very discouraging," said Susan Skemp, EWEP Advisory Committee chair. "Our daily lives depend too much on engineering for us to just ignore this problem. If more young women don't start choosing engineering as a career, what will the future hold for us? It is our responsibility as

professionals to open their eyes to the possibilities, and then to support them in every way."

The long-standing under-representation of women in the engineering professions served as the catalyst for the formation of the EWEP—which represents nearly 60 engineering organizations, including government agencies, corporations, professional societies and universities—and which is dedicated to encouraging more young women to pursue careers in the engineering fields. The Coalition has successfully forged partnerships with educational organizations and program partners who can help engineers reach girls and parents with effective messages. *(continued on next page)*

SWE-RMS Awards Brunch

Please mark your calendars for our upcoming awards brunch where we will honor our scholarship recipients, winners of the essay contest, and our outstanding volunteers. We will also perform an Order of the Engineer Ceremony for all those interested in taking the Engineer's Oath. Please see this website for more information:
<http://www.order-of-the-engineer.org/>

SWE RMS Awards Brunch
Saturday, June 10th, 11:00 am
Le Central
112 E 8th Ave
Denver, CO 80203

Invitations will be mailed in early May and will include more details. Please RSVP to Heather Doty at heather.doty@swe.org.

GESET and Essay Contest Receive \$10,000 Grant from Xcel

GREAT NEWS! Sonya Reiser accepted a grant from James D. Rhodes, Grants Manager for Excel Energy Foundation, for \$10,000 to be used for the Essay Contest and GESET. Thanks to Sonya for her work putting the application together.

Submitted by Lori Stucky

"Changing Our World: True Stories of Women Engineers."

(continued from previous page)

"Through our collective efforts, the coalition has made outstanding progress toward our goal of encouraging more academically-prepared young women to choose engineering careers," said Patricia D. Galloway, Ph.D., P.E., EWEP Steering Committee chair. "We have identified the top five career motivators for girls and learned who most influences their career choices, as well as documented inspirational stories of hundreds of diverse women engineers who can serve as role models."

The educational resources included in the EWEP's long-range plan will be developed jointly by educators and engineers to inspire young women to enter the engineering field and to develop a new generation of role models for those in the field. The program components will provide both inspiring personal stories and a girl-friendly collection of hands-on activities that inspire young women to explore engineering as a career choice. In addition, the program will provide resources to those individuals with the capacity to influence and advise girls at the stage when they make decisions about college and careers. Other EWEP products and initiatives will include a television documentary, corresponding educational resources and training, and national outreach programs.

For more information on the Extraordinary Women Engineers Project, visit www.engineeringwomen.org, or contact Jane Howell at 703.295.6403, jhowell@asce.org, or Laura Humphrey at 703.295.6407, lhumphrey@asce.org.

SWE-RMS 2006 Elections

Good afternoon everyone. It is that time of year again for elections.

This is a call for nominations for Officers as well as committee chairs or members. If you are interested in an office please respond to this email or to Diana Dede at Deheinle@aol.com so we can include you on the ballot.

If an office is not your cup of tea yet then may I suggest a committee? They are a great way to get involved in the Section and explore other opportunities within the Section or at a National level. Committee chairs are appointed by the President and not elected. Please nominate yourself or someone else, don't be shy.

Included below is a brief description of each position. If there is one in particular you would like more information about please don't hesitate to ask, I would love to enlighten you. If you are currently a chair and would like to renew your position please confirm that to Diana,

Deheinle@aol.com, or myself, lori.stucky@wgint.com as well.

Diana Dede has graciously agreed to be our impartial election official this year. You will receive a ballot in the mail and electronically. You may vote in either format.

Elected Offices:

President: Work with each office and committee, represent the Section before the public and preside at all meetings.
Lori Stucky

President-Elect: Organizes the Annual Awards Banquet and assists the President when necessary as well as filling in her absence.
Heather Doty

Secretary: Takes minutes at meetings and handles the Section correspondence.
Alina Shosky

Treasurer: Maintain the Section Funds and including issuing reimbursements and payments. Prepare the budget and annual report that is sent to Nationals.
KenYetta Moreland

COR Rep (2): Work with President to report (3 times/yr) Section activities to Region Governor. Needs to be a member of the Section and have an interest in the business of the society.
Katrina Winborn and Tracey Whaley

Appointed Committee Chair Positions:

Archives: Basically this is like 'cropping' or scrapbooking for the section. This person keeps track of our history. It will most likely require that you store a few boxes at your house. We are entertaining an idea: scan relevant documents and post on the SWE-RMS website.

Audit: Review the financial records and treasurer's reports.

Awards: Coordinate, identify and nominate section members who may be eligible for SWE National Awards. You may be called upon to assemble and mail in the award application. This may include Section Awards.

Career Guidance: Coordination of outreach events with young girls. **Erica Hausfeld** (Messinger) is looking for a co-chair.

Certificates of Merit: Works with Scholarship Chair to send applications to Colorado and Wyoming high schools. The school then selects the top three female students in science and math and sends the results back to you. Coordinate certificate distribution and in-person presentations upon request. **Logan Williams** is looking for help making the submissions online secure.

Colorado Science Fair: Helps at the Fair and coordinates judges on the event day.
Gina Holland

Essay Contest: Distribute essay topic material to the schools, collect essays, coordinate judges and distribute Awards. **Sonya Reiser** is looking for a co-chair.

Family Issues: Open to creative minds. Plan and coordinate annual picnic.

Fund Raising (Fund Development): Funding for SWE-RMS, as a whole might be easier than requesting funding for individual programs or events. Attend a presentation on fundraising at the National or Regional Conference to get the basics and formulate ideas. This position may work with individual programs to apply for specific grants.

i.e. Sonya Reiser applied for a grant from the Excel Foundation for the Essay Contest and GESET. We just got notice we received the grant!

Membership: Keep membership records and supply updated lists to Washington Group bi-monthly for the newsletter.

Networking: Arrange networking meetings once/month in South, North Denver and Ft. Collins areas. Boulder Area: **Logan Williams**; Ft. Collins: **Katrina Winborn**; South: **Laurie Valaer**

Newsletter Editor: Calls for newsletter articles and issues and puts the bi-monthly newsletter together. **Sandra Wiese**

Professional Development/Programs Coordinator: These seem to go together. The position involves developing programs for the section and coordinating technical programs with other societies. You will need to plan all aspects of the programs such as location, refreshment, speaker, a/v equipment, etc. Lots of ideas in the works so you won't need to start from scratch.

Scholarship: Collect scholarship applications, coordinate judges and distribute Scholarship Awards. **Barbara Kontogiannis** and **Mary Ann Tavery**

Speakers Bureau: Coordinate volunteers for speakers when requested.

Web Page Master: Maintain and update the www.SWE-RMS.org website. **Chris Kruse**

ACEC/CO (American Council of Engineering Companies of Colorado) Women's Forum: Liaison between SWE and the Women's Forum. Assist in the planning of programs. Meetings usually last less than an hour once a month. Teleconference is a great option. Meetings are held usually at their offices at 800 Grant Street, Suite 100 Denver, CO 80203; Ph: (303) 832-2200; Email: leslie@acec-co.org; Website: www.acec-co.org.
Lori Stucky

College/University Counselors: Be available to the students at the College if they need help coordinating speakers or assist them in their planning for the year. Assist them in preparing end of the year reports. Be a liaison between the Professional and the Collegiate Sections. Don't have to be an Alumnus of the College you counsel.

Colorado School of Mines – **Lori Stucky**
Colorado State University –
CU Boulder – **Alina Shosky**
CU Denver – **Jennifer Trotta**
Metro State – **Cheryl Signs**
U of Denver –
U of Wyoming – **Judy Nelson**

Please have your nominations for officers to **Diana Dede**, Deheinle@aol.com or myself, lori.stucky@wgint.com by May 17. Ballots soon to follow.

Outstanding Collegiate & New Collegiate Section Award Judges Needed

It's getting to be that time again. Soon it will be time to judge the Outstanding Collegiate & New Collegiate Section (OCS/ONCS) Awards. The Collegiate Section Entries are due May 31st. And I will be sorting and trying to pair up judges to entries in June. We need a lot of judges and would like to have a good base from across the Nation.

What's required of judges:

- At most, scoring 10 entries (from one category - small, medium, large student section)
- Make recommendations for certificates of merit
- Provide feedback on the report (best event/category and areas that need improvement/more)
- Entries will be handled completely electronically
- Timeframe (Receive entries to judge June 30- Return scored entries July 31)

Four judges are needed for each entry, a mix of experienced (including National officers, past SAC chair), and inexperienced judges is preferred. If you have the time to judge, please contact Jenny Morikawa by June 1st.

Thanks for any help you can provide.

Please encourage your collegiate sections to apply.

*Submitted by Jenny Morikawa,
FY06 OCS/ONCS Awards Coordinator
ocs-oncs@swe.org*

What did they say?!?

As Art Linkletter used to say "Kids Say the Darndest Things" - but these examples show that some ADULTS aren't too far behind!!!

"There is no likelihood man can ever tap the power of the atom." -- Robert Millikan, Nobel Prize in Physics, 1923

"Computers in the future may weigh no more than 1.5 tons." -- Popular Mechanics, forecasting the relentless march of science, 1949

"I think there is a world market for maybe five computers." - Thomas Watson, chairman of IBM, 1943

"I have traveled the length and breadth of this country and talked with the best people, and I can assure you that data processing is a fad that won't last out the year." -- The editor in charge of business books for Prentice Hall, 1957

"But what ... is it good for?" -- Engineer at the Advanced Computing Systems Division of IBM, 1968, commenting on the microchip.

"640K ought to be enough for anybody." -- Bill Gates, 1981

"Man will never reach the moon regardless of all future scientific advances." -- Dr. Lee DeForest, Inventor of TV

"The bomb will never go off. I speak as an expert in explosives." -- Admiral William Leahy, US Atomic Bomb Project

"This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value to us," -- Western Union internal memo, 1876.

"The wireless music box has no imaginable commercial value. Who would pay for a message sent to nobody in particular?" -- David Sarnoff's associates in response to his urgings for investment in the radio in the 1920s.

"The concept is interesting and well-formed, but in order to earn better than a 'C,' the idea must be feasible," -- A Yale University management professor in response to Fred Smith's paper proposing reliable overnight delivery service. (Smith went on to found Federal Express Corp.)

"I'm just glad it'll be Clark Gable who's falling on his face and not Gary Cooper," -- Gary Cooper on his decision not to take the leading role in "Gone With The Wind."

"A cookie store is a bad idea. Besides, the market research reports say America likes crispy cookies, not soft and chewy cookies like you make," -- Response to Debbi Fields' idea of starting Mrs. Fields' Cookies.

"We don't like their sound, and guitar music is on the way out," -- Decca Recording Co. rejecting the Beatles, 1962.

"Heavier-than-air flying machines are impossible," -- Lord Kelvin, president, Royal Society, 1895.

"If I had thought about it, I wouldn't have done the experiment. The literature was full of examples that said you can't do this," -- Spencer Silver on the work that led to the unique adhesives for 3-M "Post-It" Notepads.

Drill for oil? You mean drill into the ground to try and find oil? You're crazy!" -- Drillers who Edwin L. Drake tried to enlist to his project to drill for oil in 1859.

"Stocks have reached what looks like a permanently high plateau." -- Irving Fisher, Professor of Economics, Yale University, 1929.

"Airplanes are interesting toys but of no military value," -- Marechal Ferdinand Foch, Professor of Strategy, Ecole Superieure de Guerre.

"Everything that can be invented has been invented," -- Charles H. Duell, Commissioner, US Office of Patents, 1899.

"The super computer is technologically impossible. It would take all of the water that flows over Niagara Falls to cool the heat generated by the number of vacuum tubes required." -- professor of electrical engineering, New York University

"I don't know what use any one could find for a machine that would make copies of documents. It certainly couldn't be a feasible business by itself." -- the head of IBM, refusing to back the idea, forcing the inventor to found Xerox

"Louis Pasteur's theory of germs is ridiculous fiction." -- Pierre Pachet, Professor of Physiology at Toulouse, 1872

"The abdomen, the chest, and the brain will forever be shut from the intrusion of the wise and humane surgeon," -- Sir John Eric Ericksen, British surgeon, appointed Surgeon-Extraordinary to Queen Victoria 1873.

"There is no reason anyone would want a computer in their home." -- Ken Olson, president, chairman and founder of Digital Equipment Corp. 1977.

Submitted by Tricia Schwaller

Member Profile:

Beverly Michelle Johnson

City of residence: Denver, CO

Family: I have no children, but I am getting married in June.

Member grade: M2-Member Recent Grad (working professional)

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

I have been a member since my senior year. I became involved through the SWE group at Oklahoma State University.

What positions have you held? none

What have you enjoyed most about SWE? Why?

I have enjoyed getting to know the other women in SWE. It gave me an opportunity to meet other professional women.

What is your current occupation/title?

Lockheed Martin, Lead Network Architect, Computer System Design Engineer Associate.

How did you get to that position?

I interned for Lockheed Martin before my final semester of school. When I graduated I accepted a full time position on the program I was working.

What was your college training? Electrical Engineering

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

My college training gave me a chance to interview with Lockheed at career fairs as well as a solid background for engineering work.

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

Always take opportunities to interview. The experience you receive is very valuable in the work force.

Hobbies/interests:

Besides engineering I also cross stitch and scrapbook. I like to think I'm a fairly creative person. I also like to go hiking and be outside.

New Region Award Announcement

Beginning at the **2006 National Conference** October 12-14, 2006, in Kansas City, MO, a new region award will be given to the SWE Region with the highest growth and retention rate. This new Region Membership Award will be given to one region annually and has a cash value of \$2,000 plus a trophy.

In order to be eligible, the overall Region membership statistics for professional members must meet, at least, the Society membership goals as established by the Membership Committee each fiscal year (currently 85% retention/15% growth). Statistics will be measured on June 30 each year, in line with the current end of the fiscal year. Awards will be presented at *Celebrate SWE!* during the SWE National Conference.

Each Region will be asked to submit a short paragraph to the **Awards Coordinator** on membership best practices (from the region and/or its section) to be considered for the award. All submissions are due July 30 to allow the outgoing Region Governor time to summarize the previous years' activities. In the event of a tie, the region with the highest percentage of student upgrades (number of upgrades vs. number of eligible students) will be awarded the prize. If no Region meets the eligibility criteria, the award will not be presented that year.

This award, however, does not replace the existing **Membership Awards**. The Program and Recruitment Awards will be modified and rolled out with new requirements for FY07 (awarded in FY08). Details will be posted to the SWE Web site this summer.

Please note that for FY06 applications, it is no longer a requirement to submit a membership directory for the Program and Recruitment Award. This is covered by the Member Directory on the **SWE Web site**.

Questions or comments regarding the new Region Membership Award can be directed to **SWE Awards Coordinator Harmony Myers**.

Taken from SWE Newsletter

Newsletter Sponsor

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

Time to Renew Your Membership

FY07 Renewal notices were mailed on May 1 to all professional and collegiate members. Once again, members can join SWE and either the National Society of Black Engineers (NSBE) or the Society of Hispanic Professional Engineers (SHPE) at a single, discounted rate. The joint membership rate is \$110 for professional membership in either SWE and NSBE or in SWE and SHPE. This offer is only available for current members during the renewal cycle so take advantage of this special discount by renewing today. Retired, waived, unemployed and professionals returning to full-time study must upgrade to full membership status in order to take advantage of the joint membership offer.

Collegiate members, if you have graduated in the last 12 months or will graduate by June 30, 2006, and are not continuing your education at this time, please upgrade your membership to professional status. Membership dues are the same for a collegiate upgrade or renewal. Simply click on www.swe.org/renew to submit your renewal/upgrade. Questions regarding your membership should be forwarded to hq@swe.org.

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, 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

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 to volunteer

Outstanding Collegiate & New Collegiate Section Award Judges Needed

What's required of judges:

- At most scoring 10 entries (from one category - small, medium, large student section)
- Make recommendations for certificates of merit
- Provide feedback on the report (best event/category and areas that need improvement/more)
- Entries will be handled completely electronically
- Timeframe (Receive entries to judge June 30- Return scored entries July 31)

If you have the time to judge, contact Jenny Morikawa at ocs-oncs@swe.org by June 1st.

Bulletin Board

Univ. of Denver School of Engineering and Computer Science 2006 Graduation Luncheon

SECS alumni and their families and friends are cordially invited to attend 2006 Graduation Luncheon & Alumni Reunion. Come join us as we share the achievements of our 2006 graduating class. Renew friendships with your former classmates and meet the newest members of the SECS alumni family.

When: June 9, 2006 from 11:30 am to 1:30 pm

Location: University of Denver's School of Hotel, Restaurant and Tourism Management Building

Please RSVP to Aggie Kuperman by June 2, 2006
akuperma@du.edu

SWE-RMS Awards Brunch

Saturday, June 10th, 11:00 am

Le Central

112 E 8th Ave

Denver, CO 80203

Please RSVP to Heather Doty at
heather.doty@swe.org.

Discussion Board

This newsletter's question: How do you know it is time to leave your current job?

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

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

Responses:

"A great way to network is through active participation in professional societies such as SWE. You can meet other engineers by attending the meetings, participating on committees, and filling officer positions. Your company may have corporate memberships with various organizations that allow you to attend meetings for only a lunch or dinner fee. Check with your company to determine what professional society costs the company will cover (membership fee, meeting fee, etc.). I suggest that you become active in several professional organizations with different focuses. In addition to networking, you can also enhance your technical skills through the meeting presentations and learn leadership skills. "

Submitted by Noelle R. Cochran, P.E.

"Try to get to know the engineers in your department or in the other departments. Sometimes that is easier in a social setting over coffee, a drink or a company sports team. If you get to know them and what they do, then you can learn about the work in other departments. I found this to be a good way to learn about the company and what how it does things. That means you may have to make the first move to find out information."

"Externally, you can belong to organizations like SWE and get to know what other engineers work on by participating on committees or other activities and meeting the engineers. Again, in an informal session, you can learn about what they do and learn a lot from them."

Submitted by Joan Graf

National Inventors Hall of Fame Foundation Seeking Entries for 2006 Collegiate Inventors Competition

Sponsored by the United States Patent and Trademark Office and the Abbott Fund, the Collegiate Inventors Competition is the world's leading program designed solely to recognize and honor student inventors at the graduate and undergraduate levels. Since its inception in 1990, the Competition has awarded more than \$1 million to young innovators, working alone or in teams, for their outstanding contributions to society and for their innovative work in solving engineering and scientific challenges.

Now in its 15th year, the Competition is looking for a new group of inventors who will be competing for more than \$75,000 in prizes, including a \$25,000 grand prize! The deadline for submission is June 1, 2006. The official entry form and full details on the program can be found at www.invent.org/collegiate.

Taken from SWE Newsletter

Elitch's Spring Spin Report

Great news, we sold 45 tickets to Elitch's Spring Spin and made over \$200 for the GESET fundraiser.

Thanks to everyone who purchased the tickets. Hope everyone had a great time.

Save the date on these upcoming SWE web seminars.

[Time Management: How to Get It All Done and Stay Sane When You Don't](#)

Sponsored by Kellogg's

June 7, 2006 3:00 pm EST

One-Day Workshop in Chicago

[From Pain to Gain: Enhancing Relationships Through Conflict Management](#)

Sponsored by Abbott

June 22, 2006 in Chicago 8:00 am to 5:00 pm

Taken from SWE Newsletter

SWE-RMS College Scholarship Winners Announced

We received applications for college scholarships this year from the University of Colorado, Colorado School of Mines, and Colorado State University, but none from the University of Wyoming. Three winners were chosen from the pool of excellent applicants. Thanks to Dawn Hansen, Julie Keahey, Mary Petryszyn, and Jackie Schirmer for evaluating the applicants and choosing the winners.

Lauren I. Walker - \$1000 Dorolyn Lines Scholarship

Lauren is completing her third year in a four year program at Colorado State University, majoring in Civil Engineering and minoring in Construction Management and achieving a 3.85 GPA. Upon graduation, she plans to work in a transportation engineering firm and bring locally-desired improvements to people inside and outside of the US.

In the past year, she had the opportunity to work as an intern for Stolfus and Assoc., a transportation engineering firm in Denver. Female owned, Lauren had the unique opportunity to observe women engineers working in every aspect of project management. She became more confident in her understanding of what a Civil Engineer does in this discipline.

She has been further inspired to pursue engineering by her travels to Guatemala and Mexico to do charitable work. In Guatemala, she laid a concrete floor for a poor family. While hiking to a village in the mountains to assist children, she crossed a frighteningly long, rotting suspension bridge. When she saw it she thought, "If I was an engineer, I could fix this." In summer 2005, she joined a team in Juarez, Mexico to build a two bedroom home for a family who had previously been living on a family member's front porch. These experiences have motivated Lauren to continue to learn more about different cultures and to provide appropriate improvements for the community.

Outside of her studies at CSU, Lauren has volunteered for three years as an office assistant and counselor for the Alpha Center, a local pregnancy resource center.

Holly Lynn Sewell - \$1000 Lottye Miner Scholarship

Holly is finishing her second year at the University of Colorado, Boulder majoring in Chemical Engineering and Music Composition and maintaining a GPA of 3.45. Holly wrote in her essay that she was born with congenital eye

defects. While she had many surgeries, she realized that she would never be able to see like other people. Because her eyes made it hard to view things in a distance, Holly started to look at things up close and she became detail oriented. She found chemistry appealing because atoms and molecules cannot be seen with the unaided eye, and, therefore, others do not have an advantage over her.

Holly has also cultivated skills in music and art. Holly tells people that Chemical Engineering and Music Composition are both engineering, just with different media.

Holly is currently employed by the National Oceanic and Atmospheric Administration (NOAA) writing computer programs to analyze data gathered by equipment to study the distribution of fish in the ocean and their relationship with the environment. She is also involved in the Discovery Learning Apprenticeship Program at CU working on research pertaining to the development of the fluchip.

Lecia Finney - \$1000 Pioneer Scholarship

Having received a B.S. degree in Psychology and Communications, Lecia is currently enrolled as a freshman at the University of Colorado majoring in Mechanical Engineering. As a re-entry student, she expects to graduate in 2008. She has an GPA of 3.307 and a class rank of 32 out of 86.

Lecia relates this story in how she got interested in engineering. At the age of 9, her Dad gave her a mini-crowbar to help him tear down their garage to make room for a new one. She remembers learning where to place her ladder and her tools to make the job easiest. Her Dad remembers that he could not get much work done of his own because every time he started something Lecia called him over to move her ladder. In tearing down the garage, she learned how one was put together. Her Dad took the time to explain how and why things are built. Not only did he inspire Lecia to study engineering, he taught her how to step out of the box and look for a solution to problems as they arise.

Outside of her studies, Lecia volunteers with Habitat for Humanity working with her hands to build homes for the less fortunate.

Freshman Scholarship Winners Chosen

The freshman scholarship winners were chosen this year from 50 applicants attending 44 different high schools. The most popular projected field of study was Chemical Engineering, followed by Architectural Engineering. Nearly 75% of the applicants intend to stay in Colorado or

Wyoming, with twenty planning to attend the Colorado School of Mines, nine planning to attend the University of Colorado at Boulder, and seven planning to attend the University of Wyoming. This year, 84% of the applicants were from Colorado, and 16% from Wyoming. Thanks to Jennifer Bierbauer, Sandra Herhold, Andrea Keough, Sallyanne Ofner, Nancy Peck, Kim Sawyer, Tricia Schwaller, and Cynthia Woempner-Martin for evaluating the applicants and choosing the winners.

Lori Sandberg - \$500 Miner and Miner Scholarship

Lori is graduating at the top of her class from Southwest High School in Yoder, WY, transferring there after the high school in her hometown of Albin, WY closed. She was immersed in a much more challenging math program, and even doubled up on math courses her junior year to be able to take calculus this year. Lori will attend the University of Wyoming, expecting to major in Electrical Engineering. She has received several academic awards, and has a grade point average of 98/100. Lori's well-rounded work experience on her family's wheat farm has ranged from feeding chickens and bookkeeping, to assisting with the computer, and repairing machinery. Lori's participation in the University of Wyoming Women in Science Forum, the University of Wyoming Engineering Summer Camp, and the Teton Young Women in Science Research Camp has sparked her interest in engineering.

Lori is very active in her school and community. She participated in band, was on the yearbook staff and student council, ran track, and played volleyball. Lori has been very involved in the Family, Career and Community Leaders of America (FCCLA) organization, being a state officer and member of the National Parliamentary Procedure Team. This year, her research for the FCCLA Applied Technology competition was in fiber optics, and she has won FCCLA gold medals in networking systems and telecommunications.

In her community, Lori is the Chairwoman of the Albin Children's Events, having all responsibilities involved with organizing her community's Santa visit and Easter Egg hunt. She is described as a hard-working, enthusiastic leader, with academic promise, character and maturity. Her career goal is to become a research and development electrical engineer with a high-tech industry.

Krysta Biniek - \$500 SWE-RMS Scholarship

Krysta is graduating first in her class of nearly 900 students at Cherry Creek High School. She will be attending the Colorado School of Mines and plans to major in Materials Engineering. Krysta's transcript is filled with A and A+ marks in honors and advanced placement courses, and she has received several academic honors and awards. Krysta's extracurricular activities include the Physics Club, National Honor Society, and the Philosophy Club, for which she serves as Vice-President, choosing to hold meetings at Starbucks rather than in a sterile classroom. Krysta is also a tutor, for a variety of subjects, from mathematics to Latin. She has volunteered at a library, wrapped gifts at Park Meadows Mall during the holiday season to benefit the Colorado Cancer League, and has been a judge for a junior high school science fair. Her teachers describe Krysta as an extraordinary scholar, well organized, with a vivid imagination, and huge capacity for learning.

Krysta's interest in engineering was piqued by a visit to a college laboratory where an electron microscope was focused on the hairs of a spider's knee, and another on real, pulsating atoms. Suddenly, atoms from textbooks really existed, and Krysta has been enthusiastically pursuing her goal of becoming an engineer ever since.

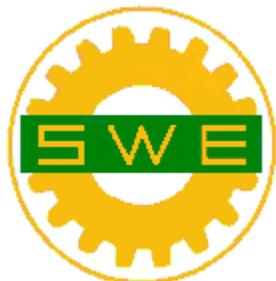
Congratulations to all of the SWE-RMS Scholarship Winners!

Submitted by Mary Ann Tavery and Barb Kontogiannis

**Girls Exploring Science,
Engineering & Technology
Event
March 10, 2006**

hosted by
The Society of Women Engineers (SWE) Rocky Mountain Section
Lockheed Martin
Junior Achievement of Rocky Mountain, Inc.
and
Agilent Technologies

Summary of Success
Final Report
April 3, 2006



FACT SHEET

WHAT:

The fourth annual *Girls Exploring Science, Engineering & Technology* event, designed to stimulate and encourage girls in 6th and 7th grade to pursue careers in science, engineering and technology, included motivational speakers, hands-on workshops, volunteer mentors and educational exhibits and was hosted by Lockheed Martin, Junior Achievement, Agilent Technologies, and the Society of Women Engineers – Rocky Mountain Section.

WHEN: Friday, March 10, 2006 from 9:30 a.m. to 1:15 p.m.

WHERE: The Colorado Convention Center in downtown Denver

WHY:

We want to encourage girls to pursue careers or interests in math, science, engineering, computers and technology because:

- Only 4% of Colorado girls specify engineering as a career interest on SAT tests
- A scant 1% of girls in Colorado indicate an interest in a computer science career
- Women make up 46% of the Colorado labor force but only 26% in technical fields
- Less than 10% of American engineers are women

WHO:

- 1207 middle school girls participated
- Over 167 adult chaperones (parents and teachers) and 189 volunteers attended
- 66 schools represented from 25 different school districts
- Denver Public Schools students made up 31% of total, Archdiocese of Denver 14% and Adams County 13%
- Over 34% minority participants
- Exhibit Booths showcased 19 exhibitors from higher education, community/professional organizations and governmental/educational entities

HOW:

- 28 organizations and individuals contributed \$84,490 to cover direct expenses
- Industry partners and other organizations provided in-kind services valued at over \$38,000
- Sponsors included:
 - ◆ Agilent ◆ Ch2MHill ◆ Junior Achievement of Rocky Mountain, Inc. ◆ Lockheed Martin
 - ◆ Raytheon ◆ Society of Women Engineers ◆ Washington Group International
 - ◆ Accenture ◆ Holmes Roberts & Owens ◆ Hewlett Packard ◆ Merrick & Company
 - ◆ Xcel Energy Grant ◆ American Council of Engineering Companies (ACEC) of Colorado
 - ◆ Rocky Mountain Section American Water Works Association (RMSAWWA)
 - ◆ Ball Aerospace ◆ Colorado School of Mines ◆ Coors ◆ ForeRunner Corp.
 - ◆ IBM ◆ IEEE ◆ Innovative Construction Solutions, Inc. ◆ Jacobs Engineering
 - ◆ KST Data ◆ LARABAR ◆ Leonard Rice Engineers ◆ Scanlon Consulting Services, Inc.
 - ◆ SECOR International Inc. ◆ Technically Speaking, Inc

IMPACT:

- See Survey Addendum

MEDIA COVERAGE:

- Media Advisory and Press Release issued by Raytheon
- Press Release issued by Lockheed Martin
- Follow-up article in the April issue of SWE Magazine

AWARDS:

- 2003 Corning and Exxon Mobil Career Guidance Program Awards
- 2004 Society of Women Engineers Corning Career Guidance Incentive Grant Honorable Mention

Quotes from Participants ...



"I learned about all the opportunities girls have in engineering and how [companies] are depending on us to come and work for them. I had so much fun and I also learned a lot too." - **Fala, Student**

"...what a fabulous time the girls from Nativity of Our Lord had...we talked for more than an hour when we returned to school about what they did, what they learned, what was the coolest thing, what new jobs they found...the list goes on and on. It was a tremendous opportunity, and we hope to be included again next year! Thanks so much."

- **Susan Miller Polednik, Middle School Math, Nativity of Our Lord**

"Thanks to what I did at the conference I'm thinking about trying to get a job at Raytheon when I'm older. I give a big thanks to the GESET crew for teaching me so much." - **Valerie, Student**

"Well, in the middle of the last class of the day, I had six very excited girls burst into my room. They all had a fantastic time at the GESET conference today. ... it was a roaring success."

- **Robert Depew - St Vrain K12 Teacher**

"To remain competitive as a nation, we must encourage our children to embrace math, science and technology. Through this innovative program, Colorado is opening new windows of opportunity for our middle school girls to explore, and plan for, an exciting future filled with possibilities."

- **Jane Norton, Lt. Governor Colorado**

"Thanks for all you do for our students! Again an awesome event! I cannot begin to tell you how excited my girls were about math and science when they got back to school. " - **Cathy Rowley, Professional School Counselor, Greenlee ECE K-8**

"...girls do start to lose interest in Science and therefore math in the middle school years and things like this are a great way to spark the enthusiasm. Having it for girls only is actually a good thing so they don't feel intimidated or obliged to act "dumb". I'll look into it for next year again."

- **Chitra Seshan - St. Vrain K12 Teacher**

"...Another hit and thanks for doing all you do! Thanks!!" - **Sharon Woolfolk, Lockheed Martin**

"...I think the GESET event was extremely worthwhile. The volunteers did a fabulous job organizing it. Thank you very much. I am thrilled to see that companies and organizations have taken a strong interest and supporting role in this kind of event. I told several parents from other schools about it..."

Thank you again!"

- **Karen Phelan, Morey Middle School Parent**

EXECUTIVE SUMMARY

SUMMARY OF SUCCESS

The fourth annual *Girls Exploring Science, Engineering & Technology (GESET)* event was a huge success. Highlights are summarized below. Planning details and statistics are included in this report.

Confirmed registrations totaled 1207 middle school girls, filling all available spaces for middle school girls. In addition, there were 167 chaperones in attendance with the girls. These statistics are very gratifying for the 2006 event, as we increased available capacity by 33% and funding by 92%. We were filled to capacity for the fourth straight year, although the demand indicated there would have been more registrants if there had been additional slots available.

Fundraising efforts by the planning committee raised \$84,490 from 28 organizations and individuals. Remaining funds will be held over for the 2007 event. Several companies, including Raytheon, Lockheed Martin and Agilent Technologies, provided in-kind services valued at over \$38,000.

The complete list of hosts, sponsors, and in-kind contributors includes: Agilent; Ch2MHill; Junior Achievement of Rocky Mountain, Inc.; Lockheed Martin; Raytheon; Society of Women Engineers; Washington Group International; Accenture; Holmes Roberts & Owens; Hewlett Packard; Merrick & Company; Xcel Energy Grant; American Council of Engineering Companies (ACEC) of Colorado; Rocky Mountain Section American Water Works Association (RMSAWWA); Ball Aerospace; Colorado School of Mines; Coors; ForeRunner Corp.; IBM; IEEE; Innovative Construction Solutions, Inc.; Jacobs Engineering; KST Data; LARABAR; Leonard Rice Engineers; Scanlon Consulting Services, Inc.; SECOR International Inc.; and Technically Speaking, Inc..

Over 167 volunteers provided invaluable support to the event mostly as mentors, and as coordinators and support staff. The planning committee consisted of 16 individuals from the hosting organizations.

Nineteen exhibitors shared information about programs or resources for girls. The exhibitors included: SWE-RMS; Junior Achievement; Lockheed Martin; Raytheon; Raytheon Math Moves You; CABPES; CSM Women in Science, Engineering and Mathematics; Bits, Bytes & Bots; Future City; Colorado MESA; CU - Women In Engineering Program; Multi-Purpose Engineering Program (CU); American Council of Engineering Companies of Colorado; Girl Scouts - Mile Hi Council; UCAR Windows to the Universe; Science From CU; A Science Discovery Program; IBM; University of Denver; Denver Zoo.

A survey was provided at the conclusion of the event. Survey results will be provided via separate Survey Addendum, and are expected to be consistent with 2005 survey results, in which over 83% of the girls agreed that the event was fun and over 86% said they learned more about engineering and technology careers due to the event activities; and over 72% of the adults agreed that as a result of the event, students will be more likely to enter science, engineering or technology classes in high school.

This annual event is repeated each March-April to support National Engineers Week and the *Introduce a Girl to Engineering* Program. The hosts have already agreed to again co-host the event in 2007, as well as setting higher goals for fundraising and sustained attendance.

In comparison with the 2005 event, in 2006 we:

- ✓ Increased funding by 92% (\$84,490 vs. \$44,000) and increased in-kind donations by 27% (\$38,000 vs. \$30,000).
- ✓ Decreased registration requests by 33% due to new registration system (1,207 vs. 1,800) while increasing attendees by 48% (1207 vs. 818) due to new venue and increased funding.
- ✓ Increased chaperones by 67% and volunteers by 26%.
- ✓ Increased the number of exhibitors by 58%.
- ✓ Received event coverage in press releases by Raytheon and Lockheed Martin, and a follow-up article in the April issue of SWE Magazine.



Who Ya Gonna Call?



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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

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
June 9, 2006	Univ. of Denver 2006 Graduates luncheon and Alumni Reunion
June 10, 2006	SWE-RMS Awards Brunch at Le Central, Denver, CO
June 30, 2006	Last Day of Early Bird Discount for SWE Membership Dues
October 11 – 14, 2006	SWE National Conference, Kansas City, Missouri