

# For Women in Science & Engineering

## 2013 TECHNICAL SYMPOSIUM & BUSINESS MEETING

25-27 October 2013, Shaffer Hotel, Mountainair, NM

Please join us in another fun weekend of networking and technical interchange!! This year's meeting will be held at the delightful Shaffer Hotel, a registered National Historical site and one of the few Pueblo-Deco buildings still in existence. Mountainair, a gem of the Old West, is nestled among charming Spanish towns along the picturesque Manzano Mountains. Mountainair is now home to many fine art galleries and studios, but still allows visitors to "step back in time" and is a delight to train enthusiasts. At the nearby Salinas Pueblo Missions National Monument you'll find three ancient Indian pueblos sites and the ruins of majestic 17th century Spanish mission churches.

The meeting begins with a Friday evening reception. Saturday morning is the annual business meeting of the Network. Lunch features a talk on the Salinas Pueblo Missions, followed by a tour in the early afternoon. The late afternoon features the technical session - an excellent opportunity to network. Students, teachers, and non-employed members presenting posters are eligible for a meeting scholarship. Saturday ends with dinner and presentation of the 2013 NMNWSE IMPACT! Award. Members are invited to stay though Sunday morning for the first meeting of the new State Board, elected at Saturday's Business Meeting.

- continued on p. 2

## — ANNUAL ELECTIONS —

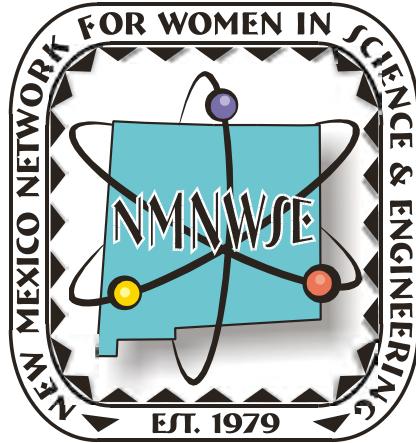
**Make time for giving back to the community by volunteering on the NMNWSE Board!!** We are looking for a volunteer for the Vice President/President-elect for the October election. This is a 2-year commitment as VP and then President. If you are interested in serving on the Board as a Member-at-Large, please also let us know. Contact Yolanda King, Elections Chair at [yolandajk54@gmail.com](mailto:yolandajk54@gmail.com). Thanks to those members who have already volunteered for Board positions.

- Yolanda King, 2013 NMNWSE Elections Chair

## 2013 IMPACT! AWARD - Nomination deadline Sep. 9

Congrats to all of the women working diligently to make an **IMPACT!** At the network, one of our main goals is to really thank each and every one of you for taking the time to encourage women to participate in the world of Science, Technology, Engineering, and Math. I would ask that as you take a moment to reflect about your and your colleagues accomplishments: is there one person you know that has really gone the extra step to get women participating? I cannot think of a more worthwhile activity than one that helps to leave the next generation equipped with the right tools and skills to also make a difference, to make an **IMPACT!** If you know someone who has truly made a difference in the lives of many, please nominate that person for the **IMPACT! Award**. We would also like to have the folks you nominate, and of course yourself, come to our Annual Meeting. Networking is important, and face to face networking has some real advantages in getting to know each other beyond just print or electrons. So, let's get to know one another and really honor those who have made an **IMPACT!**

- Nan Founds, 2013 NMNWSE President



## CONTENTS

**Annual Meeting**, p. 1  
& Annual Elections Call

**Impact Award**, p. 1  
Nomination deadline Sep 9

**Expanding Your Horizons**  
Upcoming: SF, Oct 5, p. 3  
Spring Reports, p. 3-5

**Student awards**, p. 2  
NAISEF, NM SCC, NMSEF

**STEM Opportunities**, p. 5,7

**LANL Atomic Women**, p. 6

**Meteorite Musings**, p. 8

**Personal Highlights**, p. 8  
Roberson, Galves, Lee, King

**More News**, p.6,7

**for more news, see**  
[nmnwse.org](http://nmnwse.org)

**Contact us at:**  
**NMNWSE\_Board-L**  
**@list.unm.edu**  
or  
[webmaster@nmnwse.org](mailto:webmaster@nmnwse.org)

Registration is \$85 including lunch and dinner on Saturday. Registration closes 10 Oct 2013, with late registrations accepted through the meeting date on a space-available basis. See the AM 2013 webpage, <http://nmnwse.org/AM/2013/>, for the meeting schedule, registration form, hotel information and other details as they become available. If you have questions, would be willing to help with meeting planning, or would be interested in running for the 2014 Board, please fill in the Interest Survey or email the NMNWSE Board.

- Yolanda King, 2013 NMNWSE Annual Meeting Chair

## 2013 NMNWSE Award winners at NAISEF, NMSEF, and NMSCC

**Congratulations to the NMNWSE Award winners at the 2013 National American Indian Science and Engineering Fair and EXPO (NAISEF),** held 21-23 March 2013 at the Albuquerque Convention Center in Albuquerque, NM:

- **Sinihele Rhoades**, grade 5, Engineering: Electrical and Mechanical, *Automa-tada*, an investigation into the workings of automaton toys, with a tie in to a native legend.
- **Priscilla Martinez**, grade 9, Animal Studies, *Cota the Tumors*, an investigation into whether a traditional herbal medicine had an impact on reducing tumors (it did).
- **Kendra Pallin**, grade 12, Microbiology, *Contrary to the Textbook: Possible Sporulation and Identification of Bog Mycobacteria Isolates from Pitcher Plants*, an impressive in-depth study.

Each received \$50, an award certificate, and a tote bag with Career Materials. The judges for NMNWSE were Laurie Marnell and Tinka Gammel.

**Congratulations to the NMNWSE Award winners at the 2013 New Mexico Science and Engineering Fair (NMSEF),** held 5-6 April 2013 at New Mexico Tech in Socorro, NM:

There were 10 awards for \$50 plus a certificate and tote bag with goodies:

- Botany (Plant Sciences) - **Andrea Chin-Lopez**, Taos Middle School: *Chokecherry & Cyanide*
- Chemistry - **Tharani Murali**, Sierra Middle School: *Environmentally Friendly Energy*
- Earth & Planetary Sciences - **Cecilia Pareja**, Our Lady of Fatima: *Greenhouse Gasses*
- Energy & Transportation - **Alicia Ulibarri**, St. Charles Borromeo School: *Efficient Home Insulation*
- Engineering - **Molly Klein**, St. Thomas Aquinas School: *When It Rain, It "Porous"*
- Environmental Sciences - **Ruby Selvage**, Los Alamos Middle School: *Gallium Reacts to the Fuel Crisis*
- Mathematical Sciences - **Sueda Cetinkaya**, Albuquerque School of Excellence: *Image Analysis of Skin Cancer Using Fractal Geometry*
- Medicine & Health Sciences - **Julia Johnson**, Taos Middle School: *The Sound of Music*
- Microbiology - **Priyanica Velappan**, Los Alamos: *Bacteria Vs. Spices*
- Physics & Astronomy - **Olivia Schmelzel**, Roosevelt Middle School: *Just Wheelin' Around*

There were 5 honorable mention awards for a certificate and tote bag with goodies:

- Botany (Plant Sciences) - **Madalena Roeber**, Jefferson Middle School: *Fungi as Fertilizer (Part II)*
- Chemistry - **Casey Tessier**, Jefferson Middle School: *Cheap Efficiency*
- Engineering - **Candace Johnston**, Los Lunas Middle School: *Which Gun Powder is Most Reliable?*
- Environmental Sciences - **Hailey Hines**, Our Lady of the Assumption: *Phase II Exposures from Granite: Radon*
- Physics & Astronomy - **Tessa Dallo**, Albuquerque School of Excellence: *Blinded By the Light*

Due to the fact that we only had 5 judges this year, we limited our judging to the Juniors. Judges for the NMNWSE Awards were Claudia Barreto, Nanette Founds, Yolanda King, Laurie Marnell, and Diane Oyen.

**Congratulations to the NMNWSE Award winners at the 2013 New Mexico Supercomputing Challenge (NMSCC),** held 22-23 April 2013 at Los Alamos National Laboratory in Los Alamos, NM:

- **Sara Hartse**, Desert Academy, Member of Team 31 whose project was *Comparison of Optimization Techniques for Road Networks*
- **Rachel Robey**, Los Alamos High School, Member of Team 53 whose project was *Lowrider to Flowrider, Vehicle Aerodynamics and Aeromodding*

The NMSCC winners were recognized both for their contributions to their team projects as well as for furthering the goals of the Network as demonstrated by their mentoring of younger students in computer programming and modeling. Each received \$50, an award certificate, and a tote bag with Career Materials. The judge for NMNWSE was Eleanor Walther.

## NMNWSE Expanding Your Horizons (EYH) Conferences

NETWORK News, p.3

The Network is excited to continue supporting the statewide Expanding Your Horizons Conferences in NM! The 2013 EYH season directly impacted over 800 girls with over 100 workshop choices. Thank you to all of the incredible coordinators, volunteers, presenters, and sponsors.

A sample of some of the amazing workshops include: *Animals that live in Water, PicoCricket Robotics, Medical Lab Scientists: The Body Detective, DNA Discovery, Scratch Programming, Engineer Your Future, Innoventure: STEM + Business, An Engineered Decision, Programming with Alice, Movies & Animations on a Ti83, Google SketchUp!, Slime & Penny Bridges, Sustainability and Engineering, Website Delight, CS Forensics, Archaeology Detectives, Go With the Flow: Water on the Move, Controlling the Sun, or Can You?, Green Chemistry: Natural Inspiration for Better Technology, Raptors: How Birds can be Great Teachers, Pulling out DNA from your own cheek cells!, Cryptography and Steganography - From Caesar to Shannon, Teeth in Your Future?, Tails of a Veterinarian, Ocean Density, Current, and Ice, Aviation and Aerospace, Ooey Gooey Polymers, Hydrogen Fuel Cells, Paper + Electronics, Nutrition in the ICU.*

Several NM EYH Conferences also hosted workshops for parents including: *Navigating College Admissions, Why So Few Girls in STEM?, What's Next? Informal Science & Engineering Education for Girls in Central NM, Maxwell Museum Tour.*

We are honored and excited about the depth and breadth of sessions made available to girls (and parents!) in NM. Thank you!

As we look forward to the 2013-14 EYH Conferences, visit <http://nmnwse.org/eyh/> for the most up-to-date information. Note EYH Santa Fe will be hosting a conference on Saturday, October 5, 2013 – see below.

If you can recruit presenters and host as few as 6 or as many as 30 workshops, you can bring this memorable experience to girls in your town! If you are interested in starting an EYH Conference in your area, please contact me for information, guidance, and assistance.

– Rebecca Galves, NMNWSE state EYH chair, [rgalves@cs.nmsu.edu](mailto:rgalves@cs.nmsu.edu)  
or via the NMNWSE board at [NMNWSE\\_board-L@list.unm.edu](mailto:NMNWSE_board-L@list.unm.edu)

## Upcoming EYH

### — Santa Fe EYH this October

**Next, I will...:** “tell my mom about all the cool things I learned today and how cool everything was.”

Santa Fe will be holding an EYH on Saturday, October 5, 2013, 9am - 3pm at Santa Fe Community College, targeting girls in Grades 5-8. The Santa Fe EYH Conference is presented by **New Mexico Network for Women in Science & Engineering, Santa Fe Institute GUTS y Girls, and AAUW Santa Fe**. If you are interested in volunteering or attending, contact Lina Germann: 505-310-4122 , [lgermann@gmail.com](mailto:lgermann@gmail.com), or Irene Lee: 505-946-2742, [lee@santafe.edu](mailto:lee@santafe.edu), or visit <http://www.expandingyourhorizons.org/conferences/SantaFe/>.

See <http://nmnwse.org/eyh/> for information on Spring 2014 NMNWSE EYH conferences.

## Spring 2013 EYH Reports

### Albuquerque EYH

We had 312 young people pre-register for the event. Of those, 198 (63%) showed up at our registration tables. In addition to the 198, we had 30 additional young people show up day of, for a grand total of 228 young people attending our EYH this year. Thanks to all who helped, and especially outgoing CEYH Chairs Elizabeth Kallman and Klaus Heinemann!

We are on track for the spring 2014 Central EYH. Kelly Collins and Nichole King-Campbell are co-chairing, and are looking for volunteers to help organize. If you can help, please contact us at [Central\\_EYH-L@list.unm.edu](mailto:Central_EYH-L@list.unm.edu), or fill in the form at [http://nmnwse.org/ceyh/Forms/volunteer\\_form.php](http://nmnwse.org/ceyh/Forms/volunteer_form.php)



# Las Cruces EYH

Network News, p.4

EYH Las Cruces was fantastic! Thank you to the incredible organizers, presenters, volunteers, the Network, and NMSU for providing the resources for this event! We experienced a 300% increase in participation from our EYH LC 2012. It was a Saturday in April to remember, and earned a 4.7 / 5 approval rate from participants.

For more photos, visit our Facebook page at "Ywic Nmsu," in the photo album "Expanding Your Horizons 2013."

To participate by hosting a workshop or volunteering, please connect with Rebecca Galves, [\(rgalves@cs.nmsu.edu\)](mailto:rgalves@cs.nmsu.edu), (575) 646-4451.

For general information on EYH LC, visit <http://nmnwse.org/eyh/>, <http://www.eyhnmsu.webs.com/>, or <http://www.expandingyourhorizons.org/conferences/LasCruces/>.



# Silver City EYH

Our conference was held on March 16 on the WNMU campus. We had 156 girls (5th - 8th grade girls from the 4 southwest counties of NM) attend. 214 pre-registered, for a no-show rate of 33%. Attendees were 50% in 5<sup>th</sup> grade, 28% in 6<sup>th</sup> grade, and the rest in 7-8<sup>th</sup> grade. As you can tell from the pictures, the girls all had a great time, and so did the volunteers!

We are looking forward to our 22<sup>nd</sup> annual EYH in Silver City next spring – contact Mikki Jemin, [maryjemin@yahoo.com](mailto:maryjemin@yahoo.com), if you'd like to be involved.

*EYH LC 2014 contacts  
and updates at:  
<http://nmnwse.org/eyh/>  
<http://nmnwse.org/sceyh/>*



March 2, 2013, Santa Fe Convention Center

Our 2013 Expanding Your Horizons conference event can be viewed as very successful based on several diverse metrics. 223 students, 9 student mentors, and 16 adults attended. The event drew a diverse group of girls with respect to geographic, racial/ethnic and socioeconomic characteristics: Students represented 50 different public, private, and home schools in Northern New Mexico; 57.4% of respondents were from underrepresented groups in STEM including Native Americans, African Americans, Hispanics, and students of mixed ethnicity including one of the underrepresented groups and 42% of participants received scholarships to attend.

The mission of EYH is to encourage young women to pursue STEM careers by providing STEM role models and hands-on activities for middle and high school girls. Based on the participant responses, the event changed perceptions of STEM careers (65.1%) and STEM practitioners (66.1%) in a positive way, and 75.1% of the girls were encouraged to take more STEM classes. (Note that of those who said that their attitudes towards STEM did not change, several noted that they already had a positive attitude towards STEM.) Our workshops were appropriate for girls at various age and maturity levels. The average content rating across workshops was 4.35 (between mostly good and fantastic) and the average difficulty rating was -0.21 (between just right and easy).



Some changes made to this year's EYH conference included: partnering with Los Alamos Women in Science, hosting the event at the Santa Fe Convention Center, moving the conference to a Saturday, decreasing the cost of registration from \$10.00 to \$5.00 per student, and accommodating a wider range of students (5th-12th grades). The new venue supported 200+ participants, and our workshop durations were increased from 1.25 hr to 1.5 hours. The overwhelming number of people (128!) who volunteered to support this event was not only gratifying, but also integral to the success of the event. We hope that in future years, the volunteer pool will continue to grow.

- see p. 3 for Fall 2013 Santa Fe EYH -

## Statewide STEM Opportunities – For Educators, STEM Professionals

- Rebecca Galves, NMNWSE EYH Chair

New Mexico offers an incredible array of professional development conferences and activities for all STEM practitioners throughout the state during the Fall:

- Albuquerque Tech Fiesta, week-long celebration, September 7-15, 2013. Locations: Different Venues throughout Albuquerque. Website: <http://www.techfiestaabq.com/events/>.
- Science and Technology Day, at the NM State Fair, Friday, September 13, 2013.
- Wordpress WordCamp conference, September 13-15. Note panel discussion about women in technology. Website: <http://2013.albuquerque.wordcamp.org/schedule/>
- San Juan Watershed Group will hold its next meeting at 6:00 pm on Monday, September 16, 2013, at the Farmington Civic Center.
- Pathways to Careers and Colleges Day, at the NM State Fair, Tuesday, September 17, 2013.
- International Symposium for Personal and Commercial Spaceflight, October 16-17, 2013. Location: NM Farm & Ranch Heritage Museum, Las Cruces, NM. Website and to Register: <http://www.ispcs.com/>.
- Association of Science – Technology Centers Annual Conference, October 19-22, 2013. Location: Albuquerque Convention Center. Website and to Register: <http://conference.astc.org/>.
- NMNWSE Technical Symposium and Annual Conference, October 25-27, 2013. Location: the Shaffer Hotel in Mountainair, New Mexico. Website and to Register: <http://nmnwse.org/AM/>.
- NMSTA/NMCTM/EEANM Annual Conference, November 1-3, 2013. Location: Centennial High School, 1950 S. Sonoma Ranch Blvd., Las Cruces, NM. Website and to Register: <http://nmsta.org/>.

## Atomic Women at LANL: An Experiment in Networking

Network News, p.6

*Barbara DeVolder and Laura McClellan*

Atomic Women is a network of women in science and engineering at Los Alamos National Laboratory. Our goal is to provide opportunities for networking, information exchange, and support for women at all stages of careers, including summer students, year-round students, post-docs, and research staff.

Atomic Women started in 2007, centered in one Division at the Lab. Our initial goal was to introduce women summer students to women scientists, and our first event was a panel discussion on graduate schools and early careers in science. When the summer ended and the students returned to their universities, we discovered that we enjoyed meeting, networking, providing interesting programs and speakers at our meetings, so we continued to meet monthly, during the lunch hour. Over time and through word of mouth, we have expanded to include women in several Divisions. We make a special effort to reach out to women summer students throughout the Lab, and we try to tailor our meetings during the summer months to appeal to students. Yet our focus remains on establishing a network for all women working in technical fields at the Lab.

We have no officers, no dues, no budget, no paperwork. In fact, our current model for organizing meetings is to rotate leadership: whoever volunteers to organize a given month's meeting is the leader for that month. Here is a short list of some of the topics that have been covered at our meetings: discussions among ourselves (no invited speaker); panel discussions featuring young staff speaking on graduate schools and early careers; in-house invited speakers on such topics as funding, mentoring, career development, stress management and resiliency, HR issues (performance appraisals, grievance procedures, disability and maternity leave), gender bias in science and engineering, communication in the workplace, management and leadership skills, diversity issues, networking, professional coaching, work/life balance, and many other topics. Several members have also given technical talks at our meetings. In addition, we started a dry-run club for members interested in previewing others' talks or posters and providing useful feedback before a conference. Once during the year we have a planning meeting, at which we brainstorm and compile a list of possible topics and speakers for the coming year. Every December we have a holiday potluck and encourage women to bring a (female) friend as a means of increasing our membership. We celebrate mothers-to-be with special cakes at our meetings, and we bid farewell in a similar manner to those leaving the Lab.

Because our network has always been an experiment, we are flexible and open to new ideas. Therefore, we often receive suggestions from women about possible in-house speakers, topics for discussion, modifications to our plans. For example, one student suggested that we schedule our potluck for the summer, when more students are at the Lab. Women freely share information, articles, and links of interest via our email distribution list. Some of our members are active in the American Physical Society and IEEE, and they have provided us with information and resources from these organizations. We recently held a speed-networking meeting, and the room was abuzz with exchanges. In addition to our regular monthly meetings, we have started monthly brown-bag lunches at which women can become better acquainted and can talk about work and non-work matters in a relaxed and friendly atmosphere.

Lastly, we always have a voluntary dessert potluck at each meeting, where members can (but are not obligated to) bring home-baked or store-bought snacks. Therefore, we have the best refreshments of any meeting at the Lab.

One goal that we have not yet accomplished is networking with other labs, universities, or research centers. Although such contacts would be primarily through emails, there are other avenues of communication that could be explored, such as video teleconferencing. Since internal networking has proven to be valuable for many of us, we can only assume that external networking would lead to more connections, more ideas, and more opportunities. If any individual or group would like to participate in such an initiative, we would welcome the chance to try inter-organizational networking.

As Atomic Women continues to grow and evolve to meet the needs of our active members, we would be interested in knowing about the experiences and successes of other networks. Specifically, what programs have been most valuable in promoting the goals of your network? Have you sponsored any events that included male colleagues, such as presentations on gender issues in the workplace?

If you are interested in exploring inter-organizational networking with us, or if you have suggestions on programs or events, please contact Barbara DeVolder ([bgd@lanl.gov](mailto:bgd@lanl.gov)) or Laura McClellan ([lstoltz@lanl.gov](mailto:lstoltz@lanl.gov)). We would appreciate hearing from you.

## More News

### Santa Fe AAUW Careers And Curiosity

The Santa Fe AAUW will hold two Careers and Curiosity days at Santa Fe elementary schools next spring. If you would like to participate, or hold one in your area, contact Lina Germann: 505-310-4122, [lsgermann@gmail.com](mailto:lsgermann@gmail.com). See also <http://santafe-nm.aauw.net/activities/outreach/careers-curiosity/>.

## **STEM Opportunities, for Educators, STEM Professionals, cont'd**

## **NETWORK News, p.7**

- 6th Annual NM Women in Technology Celebration, November 7, 2013, 8:30 – 10:00am. Location: Marriott Pyramid, Albuquerque, NM. Website and to Register: <http://www.nmtechcouncil.org/2013/05/6th-annual-nm-women-in-technology-celebration-2013>
- NM Academy of Science and NM EPSCoR Joint Annual Meeting, November 9, 2013, 11:00am – 6:30pm. Location: Marriott Pyramid, Albuquerque, NM. Website and to Register: <http://nmepscor.org/>.
- NM Technology in Education Annual Conference, November 13-15, 2013. Location: Hotel Albuquerque, Albuquerque, NM. Website and to Register: <http://nmtie.net/>.

## **— For Kids (Mentoring opportunities!)**

Looking to participate or host a team challenge activity this year? This list is a great place to start!

- Supercomputing Challenge, <http://challenge.nm.org/>, October – April, Middle and High School teams, StarLogo TNG and NetLogo Platforms.
- B.E.S.T. Robotics Competition, NM Host: <http://engr.nmsu.edu/best/index.shtml>, with NMSU College of Engineering and Project Lead the Way, National site: <http://best.eng.auburn.edu/#>; September – November, Middle and High School Teams, VEXnet Robotics Platform [NMSU Contact: Patricia Sullivan, [nmbest@nmsu.edu](mailto:nmbest@nmsu.edu), 575-646-2913 or Tracey O'Neill, 575-646-7852].
- NMSU Science Brain Battle and Olympiad, September – January, Ligia Ford, 575-646-7524, <http://education.nmsu.edu/projects/stem/science-brain-battle.html>
- NM Hydrogen Fuels Challenge, November 18. Contact Janelle Vigil-Maestas at (505) 665-4329 or [vigil-m@lanl.gov](mailto:vigil-m@lanl.gov) for details [teacher training in September.]
- FIRST Lego League, <http://www.usfirst.org/>, November – March, Middle School, ages 9-14, LEGO Mindstorm Robotics Platform, and RTX allowed [Sierra MS, Dave Wibe].
- FIRST Robotics Competition, <http://www.usfirst.org/>, January – April, High School teams, Robotic Platform is a Kit provided by FIRST (Registration: \$6.5K, Robot: \$3.5K) [LCPS District Team, Jeff Harris].
- FIRST Tech Challenge, <http://www.usfirst.org/>, January – April, High School teams, LEGO Mindstorm Tetrix Kit Robotics Platform
- Junior FIRST Lego League, <http://www.usfirst.org/>, January – April, High School teams, LEGO We Do Kit Robotics Platform [LCPS District Team, Jeff Harris].
- Botball, January – April, <http://www.botball.org/>, Middle and High School Teams, LEGO Technic Robotics Platform [MHS, LCHS MESA teams].
- RoboRave International Challenge, May 4, 2013, <http://roboquerque.org/>, registration opens in October. Grades 3 – 12. Any Robotics Platform (LEGO, VEX, BoeBot, etc.) [MHS MESA 2011-12].
- NM Science and Engineering Fair, Regional Fairs occur throughout the year. Final Judging occurs in early April. <http://infohost.nmt.edu/~science/fair/homepage.htm>

For more information, don't hesitate to visit the websites and contact the coordinators directly. Have a wonderful Fall! If you would like to share more information regarding events happening throughout NM, please email [rgalves@cs.nmsu.edu](mailto:rgalves@cs.nmsu.edu), or post announcements directly to [MNWSE-L@list.unm.edu](mailto:MNWSE-L@list.unm.edu).

## **More News, cont'd from p. 6**

### **CSWP Woman Physicist of the Month Program**

The American Physical Society's (APS) Committee on the Status of Women in Physics (CSWP) Woman Physicist of the Month Award recognizes female physicists who have positively impacted other individuals' lives and careers. This award is not restricted to research physicists, but open to students, teachers or any woman doing physics-related work. To nominate someone, email the name, institution/facility/company, and email of both the nominee and nominator to [women@aps.org](mailto:women@aps.org). Attach the nominee's CV and a nomination statement up to three paragraphs. For more details, and to read about the 2013 recipients, visit <http://www.aps.org/programs/women/scholarships/womanmonth/2013.cfm>

### **New book showcases over 30 women scientists**

"*Blazing the Trail: Essays by Leading Women in Science*" provides over 30 new role models to future scientists whose stories will inspire young women to consider careers in the physical sciences. The book contains short pieces written by women who completed their education in physics in the United States and who subsequently pursued physics careers in academia, government, and industry (though there are a few unique cases).

### **From NPR**

<http://www.npr.org/blogs/alltechconsidered/2013/08/09/210251404/why-arent-more-girls-attracted-to-physics>

## Meteorite Musings

- Tinka Gammel, webmaster@nmnwse.org

A few years ago my mother had an impulse to see the meteorite she recalled being on her family farm. Since it was 'given or sold to a collector or scientist sometime between 1930 and 1950', and the descents of her brother who lived on the farm at the time paid no attention to his stories as he was known to like to pull one's leg, and no meteorite from her hometown is listed in online meteorite databases, we've sort of give up hope of figuring out if it is on display anywhere, but have been on numerous 'meteorite trips' to see if we can find one that looks like it. After the Spring Board meeting in Las Cruces, we drove to the Odessa Crater in Texas not far from the SE corner of NM – not as impressive as Meteor Crater in Arizona, but a nice hole in the ground, and for us worth the 5 hour drive through blinding dust to get there. More recently, I was looking up places one could see the K-T boundary in NM for our next field trip, and came across a nice field trip guide to the ones near Trinidad, Colorado – the next time we have a meeting in NE NM, I'm planning on leading an "NMNWSE field trip" to see the relevant road cuts. The field trip guide mentioned they first stopped in Santa Fe to see the shatter cones - a telltale sign that you are standing where a large meteorite once hit (over a billion years ago, in this case). Amazingly, this at least mile-wide impact structure was only noticed in 2005 by a retired petroleum geologist living in Santa Fe, despite clear shatter cones appearing in the 1.2 billion yr old granite outcroppings of the decades old road cuts on this section of highway. Well, we had to go see those, especially as these days I do shock modeling – sure enough, on Hyde Park Road between Hyde Park and 10,000 Waves, we saw two outcropping that looked, to my amateur eye, suspiciously like the picture in the wikipedia article on the Santa Fe Impact Structure, so we think we found it! I'm not going to tell you exactly where so you can have the fun of finding it yourself, but email me if you have trouble.

We are keeping our eyes open for new meteorites and related objects to look at. While comet PAN-STARSS this spring turned out to be quite hard to view (my mother and I did manage to see it, dim in the evening twilight), and prospect for Comet ISON this fall is looking dimmer for it being a great comet, we are still hoping comet ISON will be good this December, as well as for the predicted meteor storm next May (we saw one in the mid-60's – 10 a second!). Of course, the Russian Meteor a few months ago was incredible – wish we'd seen it! Keep Looking up, and at those road cuts – who knows what you may see or find!

**Related web articles:** [http://en.wikipedia.org/wiki/Santa\\_Fe\\_impact\\_structure](http://en.wikipedia.org/wiki/Santa_Fe_impact_structure)

<http://www.skyandtelescope.com/community/skyblog/observingblog/Meteor-Storm-Brewing-for-2014-173316061.html>

<http://www.skyandtelescope.com/community/skyblog/newsblog/Comet-ISON-Recovered-and-Not-Looking-Good-219432571.html>

## Personal Highlights



\* **NMNWSE Board Member Dana Roberson** was recently voted "2013 Woman of the Year" for the La Luz Chapter of the American Business Women's Association. Last summer, she was one of three women awarded an "**Outstanding Citizen**" by the Tijeras Chamber of Commerce for work done by the Charity-"East Mountain Friends for Families." She recently sat for and obtained a "**Project Management Institute - Agile Certified Professional**" certificate - one of very few in New Mexico.

\* **NMNWSE Members Rebecca Galves and Irene Lee** both were honored this April with **2013 YWCA Women on the Move Awards**. Rebecca Galves coordinates Young Women in Computing at NMSU, where she mentors the next generation of computer scientists, many from cultural and social groups underrepresented in computer science. Most of her mentees have gone on to college and majored in computer science. Irene Lee has mentored scores of young women in computing and technology throughout the state and works with several committees and organizations to enhance this work, including New Mexico Computer Science for All, Project GUTS and GUTS y Girls. In 2012, the **NCWIT Aspirations in Computing Educator Award** recognized her efforts in educating minorities and women. Both Rebecca and Irene have chaired **NMNWSE EYH conferences**, and are well deserving of this recognition.



\* Long-time **NMNWSE Board member Yolanda King** was recently recognized with a pin and plaque for an amazing **30 yrs of Civil Service**. Yolanda was also recently **selected for the NM Women's Forum**, part of the International Women's Forum , whose mission is to advance leadership across careers, cultures and continents by connecting the world's most preeminent women of significant and diverse achievement. Yolanda is also featured in the chapter on "**Women as Leaders**" in the **NMNWSE Careers book**.

**The NMNWSE Board welcomes suggestions for women to nominate for awards and similar recognition.**  
**- email your suggestions to NMNWSE\_Board-L@list.unm.edu -**



SF EYH committee member  
Phyllis Baca joined the search  
for shatter cones. Is this one?