



WESTERN CHAPTER NEWS

INTERNATIONAL EROSION CONTROL ASSOCIATION

Serving Erosion Control Professionals in Arizona, California, Nevada and Hawaii

Volume 16, Issue 1
SPRING 2012

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New Chapter Web Site!

Have you visited the all-new WCIECA.org? Get the latest Chapter news online—Check it out today!

www.wcieca.org

Why I'm A Proud Member of the WCIECA

Joining a professional organization such as the WCIECA may not be among your top priorities, given the numerous responsibilities you juggle on a daily basis. After all, aren't memberships in professional organizations just opportunistic networking get-togethers and excuses to go to conventions? I mean who has the time to go to more meetings and participate in more activities when your job and company demand so much of you already?

I challenge you to think outside of the box for a moment and start thinking about the numerous benefits that joining the WCIECA would offer you. The erosion control industry like every industry is all about people. People are what make life interesting. People are what make your current employer unique from your competition, each person and their unique capabilities bringing value to the overall picture. Just like your profession, getting the most out of anything in life is directly related to how much you put in. The WCIECA is all about people, adding value to your company and promoting what you most likely have a passion for, erosion control.

I'm not going to lie; I joined the WCIECA and became a board member so that I could hopefully benefit and advance my professional development and career. I joined for the connections I would make, the resources made available to me and the ideas and advice I would receive. Bottom line, I joined because the other members, the people that are part of the WCIECA, have the same passion as I do. In the short amount of time I have become a member I have reaped the rewards to help me further my career. For a modest, manageable investment of time, money and effort, I am definitely getting more than originally expected.

Participation is key, your unique ideas and background are key, the success of the industry as a whole is largely dependent on what you contribute, and that's why we need you. Simply being a card-carrying member of the WCIECA doesn't



Dan Waldman, Erosion Control magazine talks with Marty Dine, President of QuattroGolf USA at EC'12 Conference, Las Vegas, NV.

mean you are a productive member. I challenge those that are current members to be more productive, voice your opinions and participate to your fullest. In order to develop your knowledge base, establish new friendships and working relationships you must participate on a regular basis!! The WCIECA is more than just becoming a member and paying an annual dues statement. Taking advantage of everything the WCIECA has to offer takes some commitment and work, but I promise you it will reap big rewards, not only for you, but for others within the WCIECA.

For example, you probably won't meet people by walking into a room of 500 – 1,000 people like you do at a normal convention and hand out your business card. You won't get outstanding career advice or develop potential business partners that way. It takes months to develop those relationships into something meaningful. Joining the WCIECA and actively participating in

See **Member Pride**, page 5

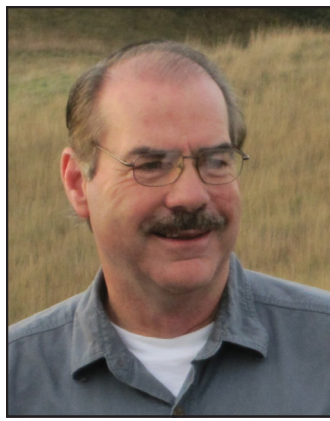


Cameron Flower

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President's Message

On behalf of your Western Chapter Board of Directors, I wish all WCIECA members a happy 2012. Another year has come and gone and the economy is finally beginning to show signs of recovery. Over the last three years we have unfortunately seen companies come and go but hope has carried on. Our membership has suffered the same fate as the economy and we have fewer members than we were a year ago, but our group is still very strong. Financially the organization is still in good shape and we intend to use our resources to reach out to the membership and other organizations to improve our membership and provide training to those who need and want it. Our first adventures this year include an Erosion and Sediment Control Certification Preparation Course on July 11, followed immediately by a joint venture with the Great Basin Chapter of the Society of Ecological Restoration, combining our resources and manpower to create a workshop entitled *Post-Fire Land Restoration* to be held July 12-13. Both events will be held at the Best Western Airport Plaza in Reno, Nevada, and more information is available online and on pages 8 and 9 of this newsletter. Our hope is that this joint venture will lead to others in the near future.



Michael Alberson
WCIECA President
malberson@wavesenv.com

Waves Environmental
(760) 415-9922

At the IECA conference this year the Western Chapter received two awards honoring excellence: the "Chapter Management Award of Achievement" via IECA's *Partners for Excellence* program; and we successfully sponsored WCIECA member Kent Stevenson for the "Young Professional Award" to recognize his involvement in Chapter activities over the past few years.

Retreat

The Annual Board Meeting this year was done as a two day workshop at Pepperwood Reserve located in the remote coastal mountains near Santa Rosa, California. We stayed at the Bechtel House facilities and were allowed to provision and cook our own food. This allowed us to work throughout the first day, socialize by a roaring fire that evening, and after rising at dawn to take a jog/brisk walk in the early morning mist, power through a second work session after breakfast until midday Saturday. This allowed the Board members to chat and get to know each other a little better, and when Craig broke out his guitar, we discovered the '70s and '80s were still very much alive singing late into the night. It was a lot of fun and a lot of good work was accomplished. I would like to thank all who were able to participate, especially Cyndi Brinkhurst, the Board's administrative assistant, for all of the work she put in to make it happen.

Scholarships

The annual Board meeting was convened as a two-day workshop November 11-12 at the Pepperwood Reserve near Santa Rosa, California. At the above referenced retreat, many decisions concerning Chapter activities were made, but one I was glad that was carried forward is the scholarship program and we will be awarding a \$1,000.00 scholarship this year to a deserving upper division student. We still need your help to get the word out in your local area, to your Western Chapter area alma mater, and among your professional network. Also let the scholarship committee know if you want to be a mentor. Contact Pat Higgins at phiggins@lsdaz.com or me at mra@wavesenv.com for more information.

Your 2012 New Board

We held our annual Western Chapter Board of Directors election in July with six

See **President**, page 3

Upcoming Events

May 8-11 (Redding, CA) *Stillwater Creek Biotechnical Streambank Stabilization Workshop* Shasta College Redding, CA. More info at www.watchyourdirt.com. To register, contact info@salixaec.com or call (530) 247-1600.

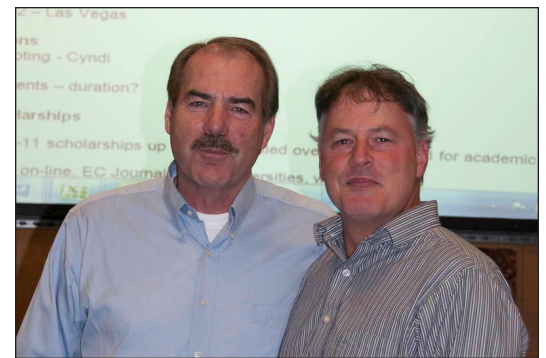
June 1 (WCIECA.org) *Call for Candidates and Board of Directors Election Announcement*

July 11 (Reno, NV) *Everything You Ever Wanted To Know About Erosion/Sediment Control But Were Afraid To Ask Certification Course*. See the flyer on page 8 of this newsletter or visit www.wcieca.org for details and to register!

July 12-13 (Reno, NV) *Post-Fire Land Restoration Workshop and Field Trip*. Best Western Airport Plaza 1981 Terminal Way, Reno, NV. See the flyer on page 9 of this newsletter or visit www.wcieca.org for details and to register!

July 13-August 3 (WCIECA.org) *Board of Directors Election*.

August 19-22 (Denver, CO) *StormCon 2012* (the largest stormwater prevention conference in North America). Exhibits from August 19-23. Colorado's Sheraton Denver Downtown Hotel. Four easy ways to register. To learn more, go to www.stormcon.com/register.shtm.



Changing of the Guard: Michael Alberson (incoming President) and Craig Benson at Board Retreat.

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Professional Listings

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CoirGreen™ is an organization that manufactures and supplies 100% Biodegradable, Environmentally Friendly products for the Erosion Control sector. Geotextiles (coir netting), Erosion control blankets (Coconut blankets), Waterlogs (Coir logs/Biologs), Coir pillows (Coir pallets) are widely used to counter erosion control globally! Visit www.coirgreen.com for more details on securing these products or contact us at marketing@coirgreen.com. Our customer service department will get in touch with you within 24 hours and help you secure our product range at very economical rates! You can also visit our Facebook page for updated news on the products/industry www.facebook.com/coirproducts and/or follow us on Twitter: www.twitter.com/CoirGreen.

JL StormWater Consultants, Inc. is a State Certified SBE/DBE/WBE/UDBE Company. www.jlstormwater.com. Jane Ledford, Principal, jane@jlstormwater.com or 619.922.6511. Services include: Environmental Permit Preparation, Processing and Compliance, SWPPP Preparation and Processing, SWPPP Implementation, SWPPP Inspections, SWPPP Training including the newly adopted Construction Storm Water Permit, Trainer of Record for the QSP/QSD classes, Construction Monitoring, Biological Resources Monitoring, Cultural Resources Monitoring, Coordination with Native American Monitors, English-Spanish Translation of Worker Education Materials.

Marvin E. Davis & Associates, Inc. focuses on the challenging issues of the Tahoe Basin and Northern Nevada/California terrain. Our professionals provide a diverse and solid background in geotechnical engineering; specialized engineering design; erosion control services; construction and forensic inspection services and materials testing; and, regulatory and compliance issues to enable project approval. Phone 775-853-9100 or visit us at www.mdageotechnical.com.

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Advertise with WCIECA - Rates Reduced for 2012!

Did you know that a one-year ad insertion in Western Chapter News also includes placement in the WCIECA.org Products & Services Directory and rotation of your banner ad throughout the Chapter's WCIECA.org web site?

Rates have been reduced from 2011 levels to just ~~\$200.00~~ **\$100.00/yr** for full color ads and ~~\$100.00~~ **\$50.00/yr** for Professional Listings. Custom ad design starts at just \$50.00. Contact Cyndi Brinkhurst at (530) 272-2407 or westernchapter@gmail.com to reserve your ad space today!



WCIECA Board 2011-2012 (left to right) Doug Dowden, Craig Benson, Jane Ledford, Cyndi Brinkhurst (administrative assistant), Michael Alberson and Peter McRae.

President, Continued from page 2

candidates vying for three Board positions. Western Chapter IECA members voted to re-seat incumbent Directors Jane Ledford, who continues as our Treasurer, and Michael Broadwater.

The elections also brought in some new blood to the Board by electing Douglas Dowden from the City of San Luis Obispo. The terms of the other five Board Directors are still active.

The Board wishes to thank outgoing President Craig Benson (who remains an active Director), and retiring Director Bobby Lall who joined the Board on behalf of Dennis Ariza who stepped down in 2010 for their dedication and hard work on the Board and in our industry at large.

At our Board meeting in November, 2011 we reshuffled Board positions and committee chairs according to the skills, interests, and capabilities of the Directors. Please see the WCIECA website to see a full listing of the Board members, committee chairs, and ambassadors at: www.wcieca.org/board-members.html. See you in Reno in July! ☀



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A Regulator's Perspective on Water Quality Management

Construction Site Stormwater Management – Regulator & Regulatee

As a local agency Stormwater Inspector there is a delicate balance between regulating the construction industry and working collaboratively with developers and contractors. Most regulations denote that the success of stormwater programs throughout the country is based upon a collaborative effort between the diverse stakeholders. I say it is a collaborative effort between everyone, since managing the impacts to local water quality necessitates the cooperation of all levels of government (Federal, State and local), the participation of what we call NGOs (non-governmental agencies, such as non-profits), consultants (engineers, landscape architects, environmentalists, geologists and of course stormwater professionals), local businesses, the development industry, construction field and the full active involvement of the public as both responsible members of the community and extra eyes for reporting potential violations. Collaboration is the most efficient and affordable means to protect water quality and to achieve compliance of the Clean Water Act.

The collaborative process for the agency I work for begins with the crafting of the language for the agency's Permit with our local Water Board. We held workshops, forums and invited the community (residential, commercial, industrial, development, construction and of course other governmental agencies) to comment on the proposed language. Following this phase, the Permit (local stormwater agency Permit or the City's contract with the local Water Board) then went to council for ratification which also involved an additional period of community comment. The end result with the assistance of the local Water Board was a manageable Permit. A Permit that clearly specifies what is expected of all members of our community.

The next phase involved an update of our local municipal codes. We again started with crafting the language, so we held workshops, forums and invited the community (residential, commercial, industrial, development, construction and of course other governmental agencies) to comment on the proposed language. Following this phase, the proposed updates to our local municipal codes went to council for ratification which involved yet another period of community comment. The end result of this collaborative process resulted in language within our codes that is clear, specific and definite as to what is expected by all members of our community. We continue the process of working hand in hand with all facets of our community as we implement additional aspects of our stormwater permit.



Doug Dowden, RLA
WCIECA Secretary
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City of San Luis Obispo
(805) 431-7167

We craft documents, and then enlist the input and assistance of all members of our community to ensure that it is not only manageable and understandable, but also feasible (economically and logistically).

This collaborative approach continues as our inspection program continues to grow and develop with the phased-in approach of our program. I am involved in the “plan review” phase of all projects, the “construction inspection” phase and the “post construction compliance” phase. All of these phases require the collaborative assistance of property owners, developers and contractors to ensure the success of our local program, the protection of local water quality and, of course, compliance with the regulations of superior agencies.

While in the field, our approach to enforcement starts with conversations with the contractor, developer and/or owner about areas of compliance that require attention or deficiencies on the ground that could lead to, or have resulted in, the discharge of sediment into the City's stormwater conveyance system (gutter, streets, drainage systems and creeks). These conversations typically result in compliance. At times, though, stormwater control measure deficiencies persist which may result in the issuance of a “Field Correction Notice.” Although formal, the “Field Correction Notice” does not result in the issuance of a fine. If deficiencies on the construction site continue, enforcement action may be elevated to a formal written “Notice to Comply,” or simply a “Notice to Correct” if steps were taken to achieve compliance, but deficiencies still exist. If no action is taken by the responsible party (owner, contractor and/or developer) or significant deficiencies persist, then a “Notice of Violation” may be issued. However, a citation or fine is still not levied. Our goal is to seek voluntary compliance with the other stakeholders in our program. The last step or tool in our enforcement box is the issuance of what we call “Administrative Citations” and/or the issuance of a “Stop Work Notice.” Fortunately, in the community I work in we have a solid relationship with the local development and construction industries which has been carefully nurtured by all staff that I work with and thus the issuance of fines and/or “stop work notices” are a rarity.

A couple of last thoughts or simple truths: Although I serve in a “Regulator Capacity” my actions are also regulated by various superior agencies, such as the Water Board, Fish and Game and the EPA. The simple truth is that if an individual construction site is out of compliance with its approved plans (SWPPP), then the local agency is also out of compliance with its Permit with the Water Board. Thus, cooperative collaboration in stormwater management is in the best interest of all stakeholders – both government and the construction, development industry.

So, whether you are a consultant, a contractor, developer and/or a regulator, active engagement with the various stakeholders in achieving compliance with the Clean Water Act necessitates collaboration by all. ☁

Member Pride

Continued from page 1

smaller task forces, helping plan local and regional events, and volunteering your time (not much needed), is where you will start seeing the benefits and forging those relationships by working with other like-minded individuals who are part of the WCIECA.

So, why should you join the WCIECA? Here is just a small list of benefits that I came up with. There are so many more benefits that I am missing.

- ❑ Access to leadership within the industry
- ❑ Professional networking at local, regional and national levels (even international)
- ❑ National and regional publications on relevant erosion control topics
- ❑ National, regional and local workshops, conferences, webcasts, field trips
- ❑ Dedicated website to facilitate your interactions with other members
- ❑ Vendor resources
- ❑ Environmental Award opportunities
- ❑ Educational opportunities

Personally, becoming a member of the WCIECA and participating within the Chapter management has given me the often-overlooked competitive advantage of projecting myself as a community and industry leader in the erosion control world. I would encourage others to write articles in our quarterly newsletter not only to educate others in the field about what you are doing, and what new and exciting ideas are out there, but also to develop new leaders in this industry. I mean I love meeting with my fellow board volunteers, but because new voices at the table would be so welcomed by everyone, I hope that you will consider upgrading your membership to include participation on any number of Chapter committees, if not becoming a member of the Chapter Board itself to see what you can offer the people that make up the largest erosion control organization in the United States.

The bottom line: Joining the WCIECA Board requires some dedication, but your involvement will help you stay on top of what's happening in the erosion control world, and it will most likely help inspire ideas that will grow and advance every company you work for. Remember, you are unique to your company, so make yourself more unique by joining and becoming involved in the WCIECA today. ☁



Leo Rodriguez, Erosion Insurance Services and Ramon Godinez, Wholesale Erosion & Landscape Products exhibiting at EC'12.



Brian Esposito and Dan Rockwell of Soil-Tech, Reno/Las Vegas, NV with Aaron Mlynek, Senior Environmental Compliance Specialist at Westwood.

AB 1210 Vetoed!

Assembly Bill 1210, as originally promulgated by Assemblyman Martin Garrick of San Diego, required that California-registered Professional Civil Engineers, and them alone, approve Construction SWPPP plans. However, in committee meetings, this exclusive authority was changed to allow others to be similarly authorized as Qualified SWPPP Developers (QSD) to approve Construction SWPPP plans. However, AB 1210 went on to exempt Civil PE's from the requirement to obtain the QSD certification required by the Construction General Permit (CGP). The bill in this form passed unanimously through the State Assembly (77/0) and the State Senate (32/0). Meanwhile CASQA and the State Water Resources Control Board stayed ominously silent on the subject

Behind the scenes a number of lawyers representing those that were not civil engineers, but met the other requirements defined in the CGP, were frantically trying to get the governor's attention by giving real life examples of the problems with this bill. Everyone outside of this group expected the bill to pass, but when it came time to sign the bill they were surprised to see the bill was vetoed.

Governor Brown's October 9, 2011 veto rationale was twofold: (1) Many of these storm plans are found to be deficient and those preparing them need a much better understanding of the necessary elements of a solid plan. It is not feasible to inspect every plan or every construction site, but it is essential to have some process in place to ensure compliance in preparing complete and sound storm water plans; and (2) That process depends on a training education program for all professionals who prepare storm plans, and it was determined that a more comprehensive bill addressing the capabilities of geologists, hydrologists, landscape architects as well as engineers should be developed.

So, this means until further notice, the QSD certification process stands as described in the CGP. A governor's veto can be overridden by a two thirds vote in both houses, and we know they will try again. We will keep you informed. ☁



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STORM Advisory

In an effort to reach out to Arizona the WCIECA approached an AZ based non-profit organization called STORM, to become an affiliate member of this education and outreach organization. In August of 2011, the WCIECA was voted in as an Affiliate Member of STORM.

STORM is a regional organization promoting stormwater quality education within the greater Phoenix metropolitan area. STORM uses a multimedia approach targeting audiences through radio, television, special events, and providing permit information to the general public and the regulated community.

STORM is made up of Municipal and Affiliate Members. Municipal members are limited to Municipal Separate Storm Sewer System (MS4) owners, including both Phase 1 and Phase II permittees and regulated permit holders that would not normally be considered municipal entities or traditional MS4 owners.

Our goal in membership with STORM is to further expand the WCIECA's exposure in the State of Arizona. It is the Board's hope that our involvement in STORM will lead to more education and outreach programs to the sediment and erosion control industry in Arizona. Through STORM's use of public service announcements, Construction Seminars and various other events, WCIECA will assist in promoting and helping where needed to bring our expertise in this industry to Arizona.

If anyone is interested in becoming more involved with the WCIECA and our involvement with STORM or if you know of another organization we should be involved with that aligns with the mission and vision of the WCIECA, please contact a board member for how you can participate.

Visit STORM's website at www.azstorm.org ☁

New WCIECA Board Member

The Western Chapter would like to welcome Doug Dowden to our Board of Directors. For committee descriptions and contact information for the full Board please visit the Chapter web site at www.wcieca.org



Doug Dowden
City of San Luis Obispo

I grew up in Southern California enjoying the outdoor lifestyle of fun in the sun at the beach. I often noticed the continuous degradation of our environment and was bothered by what seemed to be a callous disregard for the environment. No, I am not a tree hugger, but I believe there is a sensible balance between our needs and the needs of the environment. After graduating from UC Irvine with majors in biology and social ecology I worked for various environmental, planning and engineering firms engaged on projects from habitat conservation plans for the Desert Tortoise to the design of master plan communities, ultimately working for over a decade for a private solid waste hauler in Orange County. Seven years ago I moved over to the public side as a regulator and regulate.

Working for City of San Luis Obispo within the central coast of California my job duties and responsibilities initially focused in on - you guessed it, solid waste, recycling and water conservation. Recently, I began working on stormwater issues. I work on all six minimum control measures outlined in the State Permit daily, but my primary focus involves construction, post construction and the MOMM side of stormwater. MOMM is an in-house acronym for municipal operations and maintenance manual in regards to stormwater. I review plans, conduct construction site inspections, early am industrial and commercial inspections, conduct inspections of private stormwater conveyance systems (i.e. LID), work on overall program development, develop our public outreach and education programs and yes, engage in enforcement activities in regards to non-compliance and/or illicit discharges that have occurred. Enforcement is not a one-sided approach, but is a collaborative effort between the regulator and regulate in achieving compliance with the myriad of regulations that interplay within the State Stormwater Program. I believe that as an agency we have to partner up with the community (commercial, residential, industrial and construction sectors) we serve. Since, if your site is out of compliance, then the agency is out of compliance.

I believe that these experiences, my drive to excel coupled with the stellar team at the WCIECA Board will enable me to meaningfully contribute to the overall goals of the WCIECA during the next three years. I truly appreciate the opportunity to serve the membership of the WCIECA and look forward to meeting as many of you as possible at our Chapter events. ☁

Call for Articles

Do you have a technical article, regulatory update or event announcement you'd like to share with your fellow members? Possibly a profile write-up on a fellow Chapter member who is quietly implementing imaginative erosion control practices out of the mainstream eye? Forward them to Peter McRae, WCIECA Editor-in-Chief at pmcrae@san.rr.com and we'll publish them in the next issue of *Western Chapter News*!



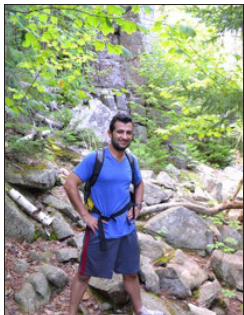
2011 Scholarship Recipient Update



Sarah M. Haggard, CPESC

Sarah Haggard is a graduate student at California State University, Bakersfield pursuing a Master's Degree in Geology with an anticipated completion in August 2012, and plans to start her own company, Deluge Consulting. In 2005, Ms. Haggard graduated from California Polytechnic State University, San Luis Obispo with a Bachelor's in Earth Science and Minors in Soil Science and Anthropology.

Ms. Haggard has worked in the erosion and sediment control industry since 2006 and has since acquired experience in managing, coordinating and conducting SWPPP compliance with Storm Water Resources as well as SWPPP and air quality compliance with M.S. Walker & Associates. She has also gained experience with BSK & Associates in conducting groundwater monitoring and sampling, as well as proper soil logging and sampling techniques. Ms. Haggard is a current member of the Geological Society of America and the International Erosion Control Association. Ms. Haggard holds the Certified Professional in Erosion and Sediment Control designation and is a Qualified SWPPP Developer/Practitioner for the State of California.



Shavger Rekani

Firstly, I'd like to thank WCIECA for their generosity in offering the opportunity for students like myself to further their education through the WCIECA scholarship program. I was enrolled in the Small Catchment Erosion course at San Diego State University, taught by Mike Harding, when I learned of this scholarship.

Currently, I'm a graduate student of Civil Engineering at San Diego State University and I expect to graduate in May 2012 with a Master of Science in Civil Engineering with an emphasis in water resources. My focus within water resources has been on hydraulics and hydrology, specifically flood modeling, soil erosion and environmental hydrology. Beyond coursework, I have completed projects on coastal erosion, where I attempted to build a model to quantify the coastal erosion rate within the Silver Strand Littoral Cell in Southern California. At this time, my research is centered on what affects agricultural return flows may have on soil permeability. In addition to my studies, I'm also the laboratory assistant for two undergraduate classes: hydraulics and open channel hydraulics, where I conduct the lab and computer based portions of the class.

Recently, I completed a three-month internship as a Research Intern for FM Global in Boston, Massachusetts. My principle duties included developing a two-dimensional flood routing model of the Hannover area in Germany, approximately 80 square miles. Included in the model were considerations for river channels, roughness, land use, hydraulic structures, infiltration, rainfall, and dams, among other parameters. Additionally, I completed a set of rating curves for all gauges within the Weser River basin to be used for calibrating the one-dimensional and two-dimensional models.

While I don't have relevant experience in the soil erosion field, I'm hopeful of gaining valuable experience in the field upon graduation. More specifically, my professional aspirations are to contribute to the improvement of current best management practices (BMPs) to help develop policies, methods and materials that are more effective at keeping soil in place, easier to deploy and more cost effective; the ultimate goal being that beginning with planning and design through implementation and operation, every development and redevelopment site will consist of a complementary suite of effective, low-cost BMPs. I'll be graduating in May of this year if anyone is looking for a great hire. ☺

Deserving Students Wanted, Apply by July 1

Western Chapter Scholarship Available

Please let students, your alma mater, alumni association, and academic contacts know that the WCIECA is offering an academic scholarship.

For 2012-13 we have available one scholarship in the amount of \$1,000 for junior, senior, or graduate school level students with a demonstrated interest in pursuing a career in the erosion and sediment control profession AND who are enrolled in a related degree-program at an accredited 4-year college or university.

Since erosion and sediment control is a cross-disciplinary field, a wide variety of degree-programs will be considered, e.g., engineering, hydrology, soils, geology, forestry, environmental studies, range management, watershed, ecology, natural resources planning, etc. Students must be enrolled in institutions within the four-state area of the WCIECA, i.e., CA, AZ, NV, or HI.

Interested students may download applications from the Western Chapter IECA website at www.wcieca.org or contact Cyndi Brinkhurst at westernchapter@gmail.com. Applicants must submit a 500-word essay, three letters of recommendation, and post-secondary academic transcripts (unofficial transcripts okay) along with the application.

Applications are due on **July 1** of each year preceding the Fall academic year to which the scholarship will be used. Awardees will be notified by **August 15**. Help us get the word out about this exciting opportunity! ☺



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7:30-8:30 Registration/Coffee

8:30-5:00 Training—7 PDHs

Mike Harding (CPESC) Geosyntec Consultants

Robert Patterson (CESSWI, CPESC, MBA) Little Creek Environmental, LLC.

Outline

Introduction to Course, Content, Expectations

- Which Certification?
- Pre-Course Quiz
- Fundamentals

Regulatory Programs for Storm Water

- NPDES
- CA CGP

Fundamentals of Erosion and Sediment Control

- Definitions and Terms
- Types of Erosion
- Water Quality Impacts
- Other Pollutants of Concern

The Arithmetic of Erosion: Part 1

- Runoff Curve Numbers
- Rational Method

The Arithmetic of Erosion Control: Part II

- USLE
- MUSLE
- RUSLE

Soil Properties

- Particle size distribution
- Analysis

Development of a Storm Water Pollution Prevention Plan

Storm Water Pollution Prevention Plans (SWPPP)

- Group Exercise

Class Presentations of Group Exercise

Q & A

Registration includes: Lunch, Technical Sessions, Coffee & Breaks, Handouts

Best Western Airport Plaza room rate \$62.95+ tax

Call (775) 348-6370 or (800) 648-3525 Group Code: WCIECA

EARLY Registration by June 1 (class cancels if <30 registrants-full refund)

___ Member*: \$175.00 ___ Non-member: \$200 ___ Member*: \$225.00 (After June 1) ___ Non-member: \$250 (After June 1)

* WCIECA member

Don't delay and plan today!

Make checks payable to: WCIECA

(1) Mail Check with Completed Registration to:

P.O. Box 474, Cedar Ridge, CA 95924

Or

(2) Email / Fax Completed Registration

to westernchapter@gmail.com

Name _____

Company _____

Address _____

Email _____

Phone _____

Method of Payment

☐ Cash

☐ Visa

☐ Check

☐ MasterCard

**Fax (530) 231-6181
Phone (530) 272-2407**

Credit Card # _____

Exp. date _____

Signature _____

Post-Fire Land Restoration Workshop



WC-IECA & SER(GB) 2 Day Event Post-Fire Land Restoration Workshop & Field Trip Best Western Airport Plaza 1981 Terminal Way Reno, NV. July 12-13, 2012

Thursday July 12

7:30-8:00 **Registration/Coffee**

8:30-5:00 **Presentations**

- Matt Germino (Supervisory Research Ecologist US Geological Survey)
- Anne Halford (Restoration Ecologist BLM)
- Michael Harding (CPESC Geosyntec Consultants)
- Julie Etra (M.S., CPESC President Western Botanical Services Inc.)
- Ben Jesch (P.E., CPESC Hillside Design LLC)
- Craig Benson (M.S., Watershed Scientist, Member of WCIECA and SER)
- Tyler Ledwith (M.S., CPESC, Former USFS Hydrologist)
- Nate Weber (PCA, QAL, CCA Crop Production Services)
- Michael Alberson (REA,CPESC, CPSWQ, CESSWI, Waves Environmental LLC.)
- JoAnne Skelly (University of Nevada Cooperative Extension Educator)

5:00 **No-host Bar & Fiesta Buffet**

Friday July 13

8:00-10:00 **Field trip overview**

- Cheryl Surface (Park Planner Washoe Co. Dep't of Regional Parks & Open Space)
- 10:30-4:00 Several **site visits** to recent local Reno fires
- Some walking/hiking involved. Bring sun screen, hat and water.
- Snacks, drinks and a field lunch will be provided.

4:30 Bus returns to **hotel**

Registration includes:

- Lunch (both days)
- Technical Sessions
- Coffee & Breaks
- Proceedings Handouts
- Thursday Evening Social Food provided (no-host bar)
- Field Trip (transportation incl.) (optional but recommended)

Contact Cyndi (530) 272-2407 (*logistics*), Julie Etra (775) 771-4325 (*technical*)

Best Western Airport Plaza room rate \$62.95+ tax

Call (775) 348-6370 or (800) 648-3525 Group Code: WCIECA

EARLY Registration by June 1

Late Registration add \$25

___ Student: \$50.00 ___ Member*: \$125.00 ___ Non-member: \$175.00 ___ Extra person for social +\$20 ___ No Field Trip: -\$20
___ Exhibitor \$250.00 Includes: One table top space and one workshop registration

* WCIECA or SER(GB) member

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