



WESTERN CHAPTER NEWS

INTERNATIONAL EROSION CONTROL ASSOCIATION

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

Volume 17, Issue 1
SPRING 2013

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www.wcieca.org

LAKE TAHOE ROAD SHOW

Innovations in Storm Water Management and Insuring Successful Construction

With assistance from IECA headquarters in Denver, WCIECA returns to beautiful Lake Tahoe on August 8 and 9, 2013 for a field trip. The workshop, *Innovations in Storm Water Management and Insuring Successful Construction* will feature complex stormwater treatment systems, as well as stream and wetland restoration projects that include fish habitat improvements and unique biotechnical methods.

We will meet at the Events Center in Kings Beach on Thursday morning for coffee and a brief overview of the engineering methods employed in the recently constructed Fox Clean Water Project, designs for Kings Beach Community Core Improvements Project (which has not been built), as well as construction details for the Third Creek Restoration Project.

The Fox Clean Water project featured an innovative approach to controlling runoff by separating the forest runoff, which is relatively low in Total Suspended Solids (TSS), and the urban runoff with its high TSS, that reduced treatment volume and improved the treatment process. Within the urban portion, the “dirty water” is treated through a treatment train consisting of drainage inlets with sumps, vaults, and other features such as dry basins or infiltration galleries. The purpose of the system is to treat dirty water closer to the source rather than wait to the end of the line. The entire system has been modeled with XPSWMM to first refine the general concepts and then for detailed engineering design.

Third and Incline Creeks design elements included restoring 1,500 feet of unhealthy channel habitat by creating a natural channel bed structured with step pools; retrofitting an existing box culvert with low-cost boulder baffles; and replacing two malfunctioning culverts with open bottom culverts. Post construction surveys confirmed that these efforts improved fish passage and allowed large lake-dwelling, stream-spawning rainbow

trout to reach several miles of upstream habitat. Several major sediment sources at the road and creek intersection were reduced, improving the water quality entering Lake Tahoe. Revegetation of the entire site within the riparian and upland areas was a key element of the Project with over 1,300 wetland plugs, 380 trees, and 530 shrubs propagated and installed in the Project area along with ‘green logs’. Willows, alders, and cottonwoods were salvaged and replanted. The Third and Incline Creek Restoration Projects won the 2010 and 2012 Tahoe Regional Planning Agency “Best in the Basin” award for habitat restoration.

Following the presentations we will travel by bus to the field to look at all three projects. Box lunches will be provided at Third Creek. The Events Center will be our final gathering spot for the day where we can enjoy a beautiful sunset and gourmet dinner served on the deck.

On August 9 we will meet at the Events Center and travel by bus to South Shore. The first stop is the Bijou Area Erosion Control Project. Stormwater in the Bijou area, one of the highest pollutant loading sources to Lake Tahoe, will be treated through a combination of engineered features and natural elements. This area is difficult to address because the urban contribution is closest to the lake where the loading is high but the space to treat runoff is low. The available land for treatment is upslope and away from the source of the loading.

See **Lake Tahoe Road Show**, page 3



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With Paul Wisheropp,
Mike Rudd, & Charley Miller

President's Message

I hope everyone had a chance to attend the IECA Conference in San Diego. If not, we are planning a few things you might be interested in attending including some local social events as well as a 2-day field trip in the Lake Tahoe area. We will be putting the specific information up on the Western Chapter's website as it becomes available.

Please be sure and let me know if you are interested in having the Western Chapter provide training in your local area. If you are interested in proposing a training event, please submit a formal proposal to me and I will forward it on to the educational committee.

I am looking forward to providing more Western Chapter sponsored events this year.

Sincerely,

Jane Ledford
WCIECA President



Jane Ledford
CPSWQ, QSD, DSP, TOR
WCIECA President
jane@jlstormwater.com

JL StormWater Consultants, Inc.
(619) 938-2420

Nominate a Board Director!

Please consider nominating a qualified person or running for a Director position yourself.

Each year in July, three of nine Western Chapter Board full-term (3 year) Director Positions are up for election.

Key responsibilities for the Directors include managing and administering the Chapter as a not-for-profit corporation, creating educational opportunities for the Chapter members, helping the Chapter and IECA grow, and responding to member questions and concerns. The time commitment includes quarterly meetings and sub-committee work totaling 5-10 hours per month.

Qualifications; Western Chapter member for at least one year and currently reside in one of the Western Chapter's member states (California, Arizona, Nevada or Hawaii)

Hawaii and Nevada representation is especially needed! Please send in nominations by Friday June 14, 2013 to westernchapter@gmail.com. 📧



Western Chapter Polo Shirts Available!

Stand out—be proud to be a member of the Western Chapter and help the Scholarship Fund! Polo shirt features embroidered Chapter logo as seen in photo. L and XL sizes only (not preshrunk), \$20/shirt plus shipping costs. All polo shirt profits benefit the WCIECA's university scholarship fund. Call Cyndi Brinkhurst at (530) 272-2407 or email her at westernchapter@gmail.com with your quantity, size and shipping information to place your order. Credit card or check accepted.

Upcoming Events

June 15 (Winters, CA) & **June 21** (San Diego, CA) SERCAL Soil Workshop Regeneration of Disturbed Soils or Substrates for Sustainable Vegetation Cover and Erosion Resistance. Instructor: Vic Classen, UC Davis, Land, Air and Water Resources Department, UC Davis. See www.sercal.org

Saturday, June 15: Classroom instruction, City of Winters Community Center; Fieldwork, Hedge-row Farms, Winters, CA.

Friday, June 21: Classroom instruction and field work, RECON Native Plants, Inc., San Diego, CA.

July 21 - 24 (Reno, NV) SWCS Resilient Landscapes Planning for Flood, Drought & Fire. See www.swcs.org/en/conferences/

August 8 - 9 (Lake Tahoe, CA/NV) Stormwater Innovations & Treatment - See [feature article](#) in this newsletter for more information or visit: www.ieca.org/conference/roadshow/tahoe.asp

September 9 - 11 (Squaw Valley, CA) CASQA Conference Taking Stormwater Quality Management to New Heights. See stormwaterconference.com

Various Dates (Regions in CA)

Sacramento River Watershed Program presents a series of Watershed Management Workshops. See www.cce.csus.edu/conferences/srwp/srwp.cfm?pid=10

CRAM (California Rapid Assessment Method) Training
See www.cramwetlands.org/training.html



Training Courses, Exam Reviews and Exam Dates

EnviroCert International provides oversight and direction for the **CPESC**, **CESSWI**, **CPSWQ**, **CMS4S** certification programs. Phone: (828) 655-1600 Email: david@envirocertintl.org. See www.envirocertintl.org.

California Construction General Permit QSD and QSP Training Courses provided by CASQA-qualified CGP Trainers of Record (CGP-ToR). Professionals developing SWPPPs (QSDs) or professionals implementing SWPPPs (QSPs) under the CA construction general permit must complete this training. See the following link for a calendar of the planned QSD/QSP trainings being offered in CA: www.casqa.org/TrainingandEducation/ConstructionGeneralPermitTraining/CPGTraining-forQSDandQSP/tabid/208/

Trainings – Offered by CISEC

For one and one-half day construction site inspector training modules on sediment and erosion control. Visit www.cisecinc.org for various dates and locations coming up in California.

IECA Webinars

IECA eLearning Online Webinars usually are one hour in length and credit attendees 1 Professional Development Hour. See ieca.crhosts.com for more details.

Lake Tahoe Road Show, continued from Page 1

The engineered features include sediment vaults, treatment vaults, and sand/oil separators. The natural features include grass-lined swales, and dry basins in the forest. The entire system is connected through a pump and treat system that lifts the water from the urban area south to the treatment site. The dry basins contain most of the flow and any outflow will be treated through swales and the meadow. This system was modeled with XPSWMM to verify the ability to trap entire storms and identify any residual runoff to the lake.

This project also requires extensive mitigation for Tahoe yellow cress, or TYC, (*Rorippa subumbellata*), a rare species endemic to the shores of Lake Tahoe and Nevada. Plants were located in the project area footprint, requiring the issuance of a California Department of Fish and Wildlife Incidental Take Permit. TYC was listed as endangered in California in 1982 and state-listed as critically endangered in Nevada. It is classified as a candidate species for listing under the Endangered Species Act in 1973.

The group will proceed to the Upper Truckee River Lower West Side Wetland Restoration Project where will have a box lunch. This award-winning habitat restoration and water quality improvement project is the, largest wetland restoration project to date in the Tahoe Basin. It included restoration of twelve acres of wetland and eleven acres of upland/floodplain adjacent to the Upper Truckee River; 80,000 cubic yards of fill were removed which was used to restore an old quarry site for CA State Parks.

The last stop will be the Upper Truckee River Middle Reach Restoration Project east of the South Lake Tahoe Airport. This is an award-winning habitat and water quality improvement project and the largest to date on the Upper Truckee River. It includes 3200 feet of reconstructed channel, 18 acres of floodplain restoration, removal of two remnant splash dams, installation of log-rock cribwalls to stabilize eroding bank and hill-slopes, and extensive revegetation highlighting biotechnical methods. We will wrap up around 4:00 and head back to the Events Center.

Speakers include Paul Wisheropp, P.E. Cardno ENTRIX, Stephen Peck, P.E, Cardno ENTRIX, Julie Etra, Western Botanical Services Inc., Kym Kelley and Claudia Chambers, Kelley Erosion Control, Brad Johnson, P.E. Incline Village General Improvement District, Charley Miller, P.E. Cardno ENTRIX, Mike Rudd, P.E., Cardno ENTRIX, and Stan Hill, P.E. City of South Lake Tahoe.

Many thanks to our sponsors, Cardno ENTRIX, ESI Resource Services LLC, Kelley Erosion Control, and Western Botanical Services, Inc., for organizing this event and providing financial support. ☺

Scholarship Available!

WCIECA is offering a \$1000.00 scholarship during the 2013-2014 academic year. Since erosion and sediment control is a cross-disciplinary field, a wide variety of degree-programs will be considered. Students must be enrolled in institutions within California, Arizona, Nevada, and Hawaii. See the back page of this newsletter for more information.



EC '13 Incorporates New Ideas, Speakers and Events!

Not Just the 'Same Old' At This Environmental Connection Conference

This conference is always about CONNECTION! 1512 attendees representing 30 countries, 344 exhibitors, countless ideas, insightful information, innovative products and practical solutions become linked. Together, this leads to exciting changes in the profession.



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With Cyndi Brinkhurst



Cyndi Brinkhurst (Admin) and Board Members Cameron Flower, President Jane Ledford, Chris Marr and Jeanne Duarte pose with awards.



A mix of two chapters: Julie Etra, Admiración Aguilar, Cyndi Brinkhurst and Beatriz Fernandez.



Angel Menendez, Jesus Cardozo, Valentin Contreras, Nicky Araujo and Peter McRae.

Barry Fagan's keynote speech was relevant and gave insights into this economy. He expounded on how a tight economy will lead to a "New Social Economy of Connections" and where only excellence will thrive! Professionals will need to offer exceptional products, customer service and information, as only the best in the business will be able to survive.

This was also the 1st year for IECA to offer conference education in Spanish, including several sessions and product practicum sessions where some exhibitors highlighted their products to a full house. We visited many of the exhibitors representing the Chapters region. See these photos on the WCIECA Facebook page. Many seasoned members commented about all the fresh speakers and topics during the 106 technical sessions offered.

Chapter Wins Three Awards

1. Membership Development & Services Award of Achievement
2. Honorable Mention for scoring 90% or higher for tasks completed during the year
3. Certificate of Appreciation for Support as Host Chapter EC'13.

See more photos on the WCIECA facebook page: www.facebook.com/WCIECA

IECA Student Moderator Sailing Outing

In further support of EC'13, Board Member and San Diego local Peter McRae invited all student moderators aboard for a sail out on San Diego Bay on Sunday as guests of the Western Chapter prior to the commencement of their educational support duties. The diversified crew flew in from Georgia, Colorado, North Carolina, Alabama, Idaho, and from as far away as the United Kingdom. They were welcomed by a beautifully clear blue sky and brisk breeze as they headed upwind under the San Diego - Coronado Bridge past local attractions USS Midway and Star of India, before being served a picnic lunch on deck. The five hour outing included a brief visit to the Hotel del Coronado adjacent to America's #1 ocean beach, and an even briefer grounding in South Bay.

Thank You Jeanne Duarte and Leona Valley Winery

Board Member Jeanne Duarte's family winery generously donated a couple cases of 2006 Malbec and 2008 Cabernet Franc to be sold to raise funds for the Chapter during the conference. We re-labeled the wine with a take on the Chapter's logo and to include an industry acronym – to read WCIECA BMP (BMP of course standing for Best Malbec Period. Perhaps the wine could serve as other ways to be one's best management practice?

See EC'13, page 5

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Western Chapter General Meeting

Twenty-three attended the Chapter General Meeting held during EC'13 which functions as the premier opportunity for Chapter members to provide the Board with feedback on what they like/dislike about Chapter activities and inspiration for new ideas going forward. The group then retired to the Tiki Room poolside to host the Chapter-sponsored social with our Sister Chapter, the IberoAmerican Chapter. ☁

Secrets I Learned at the IECA Conference Which I Cannot Say Anything About

To all that came to the San Diego 2013 conference; we had the opportunity to talk to different professionals from across the industry and learn about the many different issues they are encountering. This event gave attendees a chance to pick the brains of contractors, suppliers, and distributors to gain insight into what is happening in our industry in the “Real World.” These attendees asked great questions and their ideas and concerns were discussed throughout lunches, meetings, and group get-togethers.



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WCIECA Director
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This leads me to the secrets I learned that I can't tell you about.

Secret one: Investing in a network: I received new technologies for plant reestablishment and containment of rivers, new materials that will be presented in the near future that will take certain parts of our industry in a new direction. *This will not stay a secret much longer.*

I received information on new techniques being tried on native re-vegetation in South Africa over lunch, and got some ideas for diversifying through other like industries from an IECA chapter member from Region 2.

Secret two: Make Them Smarter and They Will Come: As we all know some of us embrace the “always be learning” motto. To hone our skills, we take courses here at the IECA Conference or webinars online. A company that I met at the conference said to tap into attendees' desire to become smarter by *informing* and not selling.

Secret three: Save Them Money: Sure, you have to spend money to save to increase your bottom line in a highly competitive market. It can be enticing to get 50 percent off a BMP that looks great and is classified as “Eye Wash” by most for the regulatory agencies.

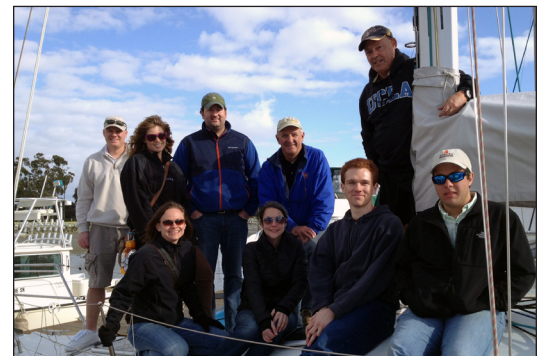
I talked with a manufacturer of a high-quality, consistent product on how they can compete against the “Eye Wash” products of the world. Consistency and high-quality were things this company valued most with their manufactured products. If there was a comment or a complaint, they could tell you about the procedures and material before they were put into the finished product. It was very easy for them to go back and see exactly how that product was made, where it was made and when it was made. That's what it's all about: Solving problems quickly.

For their sales force, it was very gratifying and much easier to know they were selling a high-quality, consistent product, where they felt that the company had their back, and they had a product they could convince somebody they really should be using. *Again, I am sworn to secrecy.* ☁

PHOTOS FROM EC'13



Skipper Mike Whitmore of Melokia prior to handing over the wheel to all-comers.



EC'13 Student Moderators safely back at Coronado Yacht Club.

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Western Chapter IberoAmerican Liaison Craig Benson left, and IberoAmerican Chapter member Juan Carlos.



It was a good year — WCIECA Technical Vice President Jeanne Duarte with a bottle of WCIECA BMP.

How to Select and Manage the Right Storm Water Professional

Current storm water regulations are strict and those slated for the future will require an even greater level of effort. Meanwhile, manpower is becoming even more limited due to budget cutbacks. Fortunately, storm water professionals are available to help you.



Anne Power
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WCIECA Ambassador
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Tetra Tech, Inc.
(805) 739-2650

Storm water consulting firms' specialties may range from erosion/sediment control and vegetation re-establishment recommendations and inspections; modeling and engineering best management practices (BMPs); post-construction BMP modeling and design; and permit compliance, training, and storm water program management. Some firms offer all of these services, and in general, can assist with most any size of project.

To find an appropriate consultant for your needs, you should first assess what type of help you need—engineering or compliance-based—to pair up with the firm's specialization. An engineering firm may not have the ability to perform permit-related tasks and a compliance-based firm may not be able to design BMPs. Additionally, the firms' prices may vary drastically. This can be—but is not always—representative of the quality of work provided and the level of expertise. For this reason, determine the quality of product needed when you are searching for a professional. To find appropriate firms, you can search the internet, publications, workshops, conferences, and organizations (like IECA!). Word of mouth is also helpful—ask someone in the field. In many cases, the local regulators will have some good recommendations.

Once you have selected one or more consultants, solicit a request for qualifications or quote that has a clear project description, scope, level of effort anticipated, and possibly the budget (if you would like this to be known) and submit to the selected firms. When bids are received, review each consultant's experience, licenses, and certifications. Prioritize your necessary tasks and identify your end goal. If all requested tasks cannot be performed within your budget, highlight those that are most important and request costs to perform only these. Evaluate and rate each submitted firm's bid. Finally, negotiate the contract, fee, and ensure the contract details meet your specifications.

In managing the selected contractor, set up an initial kick-off meeting and identify a reasonable schedule in order to ensure milestones are met. Communication is vital to staying on-task and on-budget. Provide timely and effective feedback on deliverables in order to stay on the same page. ☁

Advertise with WCIECA- Great Rates for 2013!

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!

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Kelley Erosion Control, Inc. established in 1983, recognized throughout Nevada and California as a leader in the industry. KEC has an excellent reputation known for quality, competency, solutions, innovative ideas, cutting edge technology, excellence and client satisfaction. Services include: Hydroseeding, site preparation, dust control applications, BMP's, storm water pollution inspection and monitoring, revegetation and project maintenance, site winterization, wetland mitigation, stream channel stabilization, planting and irrigation, mining reclamation, soil stabilizer applications, biotechnical applications, fire restoration/rehabilitation, water quality, turbidity control & pH sampling for SWPPP requirements. Phone (775) 322-7755, Contact - Claudia Chambers CPESC, CISC, QSP, claudia@kelleyerosioncontrol.com. Visit us at www.kelleyerosioncontrol.com.

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.

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Pacific Coast Seed is Northern California's premier supplier of CA native grasses and wildflowers, turf grass seed, and other erosion control materials such as fertilizers, mulches, and soil amendments. We provide seed and other materials for diverse applications including restoration, reclamation, revegetation, ornamental landscaping, and erosion control. We offer specialty seed collection from site-specific sources. For more information check out our website www.pcseed.com or contact us at (925) 373-4417 or info@pcseed.com.

Linwood Supply, Inc. is your distributor of BMPs for Erosion Control and Storm Water Management offering Erosion Control Blankets, TRM products, Fiber Rolls, netting, HydroFiber™, Soil Polymers, dust controls, fertilizers, seed, man-made and natural chemistries, and generally providing you with the kind of service and professionalism you deserve. Linwood Supply, inc is a certified small Business based in California, a member of the International Association of Hydroseeders, and a proud member of the Western Chapter of IECA. If Your Storm Water is as Clear as Mud™ – Please call us at (707) 678-5087 or visit us at: www.linwoodsupply.com.

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 on 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.

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.



Beach Bash Celebrating the 30th Anniversary of CPESC and the close of the Conference.



Guess who? Fun at the photo booth.

Don't sneeze—you may kick up some dust!

Dust is a common occurrence on construction sites, both active and in-active. With the change of seasons from winter to spring, most areas within the western United States experience seasonal and often turbulent winds. Ah more dust and the cause is sometimes out of our control!

Dust control should be a significant element of all Storm Water Pollution Prevention Plans (SWPPPs) under the State Construction General Permit, under the General Storm Water Permit, under the Caltrans Permit, under Water Pollution Control Plans per California Green Building Codes 2010 and pursuant to various Municipal General Permits. Dust control measures are also critical under State and local Air Pollution Control District regulations. When developing a SWPPP, consider the obvious; rules and enforcement policies vary by state, within different regions of the same state and even from agency to agency within the same jurisdiction. The U.S. EPA has recognized this problem and staff within the U.S. EPA is currently working to standardize requirements across jurisdictional lines, but this process will take a while. Much like the reconciliation between State and Federal ADA standards!

So what shall those of us “on the ground” do until the Federal and State governments come to consensus and establish unified and simple dust control standards? Don't hold your breath too long otherwise you may kick up a little dust when you gasp for air. Developing a unified dust control standard is complicated for many reasons. There are variations in terrain, soils, ecosystems, weather patterns and much more. This is all well and good, but how can those of us trying to implement often seemingly inconsistent standards for both ourselves and most importantly, our clients, do? The simple solution is to work closely with your local regulators and meet with them collectively, bringing all the stakeholders together at one table. Collaboration with all stakeholders will provide an opportunity for agency representatives to hear what their counterparts at other agencies are expecting of you and your clients. Most representatives will be flexible when they see you are making a good faith effort in meeting everyone's requirements.

Irrespective of the different goals of each regulatory agency, dust from both active and inactive construction sites must be controlled at all times. Dust, or more aptly put, “fugitive dust” may not leave the construction site at any time. There are seven major categories of particulate pollutants to consider when developing a SWPPP. These include: (1) Particle pollution (particulate matter), (2) Ground-level ozone, (3) Carbon monoxide, (4) Sulfur oxides, (5) Nitrogen oxides, (6) Lead, and of course, (7) NOA (Naturally occurring asbestos – serpentine). If this isn't enough, fugitive particulate matter often is a source of mobilizing fungi or bacteria linked to allergies and asthma reactions, and “Valley Fever.”

Here are some tips before you break ground and kick up some dust!

- (1) As we all know regulations are constantly evolving and growing. Thus, ask an environmental consultant *before* construction begins on how to mitigate soil disruption and dust generation to meet all applicable regulatory requirements.
- (2) Assess the site and determine what elements, such as serpentine, exist on-site and implement appropriate measures prior to commencing grading activities.
- (3) Although every project requiring a SWPPP must address dust control, not all projects require a “Dust-Control Plan.” Dust Control Plans are typically required in areas with NOA or in areas with soil known to be impacted with hazardous waste or chemicals. When in doubt, check with your local Air Resources Control Board and local agency.



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MRSWMP Stormwater
Program Manager



One of the most common unintended consequences of construction dust is a bill from a neighboring business to pay for cleaning services (i.e., car lots, windows, etc.).



There is a fine balance between applying just enough water to a construction site to control dust and creating mud that eventually tracks out onto a roadway.



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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 Doug Dowden, WCIECA Editor-in-Chief at stormwaterca@att.net and we'll publish them in the next issue of *Western Chapter News*!

- (4) Water is great mainstay to controlling dust, but just using water in many cases is no longer sufficient. There is a fine balance between applying just enough water to a construction site to control dust and creating mud that eventually tracks out onto a roadway. Here are a few cost effective methods to control fugitive dust:
- Water additives.** Emulsions and additive products work well to suppress dust much more effectively than just water. However, before using an additive on your site, consult with your local agency representative and a Fish and Game Biologist to ensure that the additive chosen won't create other unintended consequences.
 - Soil treatments.** Chemical binders, vegetation, etc. will hold the top layer of soil in place by creating a barrier that keeps dust particles from moving.
 - Polymer-enhanced geotextile fabrics.** Simply using a geotextile mat may not achieve the optimum results necessary; thus, you may have to add a polymer to provide double protection against erosion.
 - Modeling software.** The U.S. Department of Agriculture's free Wind Erosion Prediction System (WEPS) identifies potential airborne contaminant issues and provides site-specific solutions by enabling users to insert BMPs, run a "what if" scenario, and see the effect of various preventive options.

Here are a few generic measures that can be implemented to control dust.

- Always schedule construction activities to coincide with periods of minimum wind velocity;
- Only grade those areas where construction activity is necessary;
- Implement and enforce site reduced speed limits;
- Install and use track-out grates that knock dirt from tires before trucks leave sites;
- Use tire wash stations, which can be effective if implemented appropriately;
- Utilize high-efficiency street sweepers with particulate filters to control track-out on impervious surfaces;
- As soon as possible, implement hydro-seeding or wetting-agent applications;
- Routinely inspect all dust and sediment control measures on the site; and
- Maintain and clean all dust and sediment control measures routinely.

If you don't adequately plan for and control dust from a construction site, one of the most common unintended consequences will be a bill from a neighboring business to pay for cleaning services (i.e. car lots, windows, etc.).

These are just a few of the steps that can be taken to control dust on both active and inactive construction sites. ☁



Deserving Students WANTED!

Western Chapter Scholarship Available

Deadline July 1

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

For 2013-14 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.

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.

Interested students may download applications from the Western Chapter IECA website www.wcieca.org or contact Cyndi Brinkhurst at westernchapter@gmail.com.

Help us spread the word out about this exciting opportunity!

