



International Erosion Control Association

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

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PRESIDENT'S MESSAGE

Dear Western Chapter Members,

This coming winter season is predicted to be somewhat dry for most of our southern areas. Drought conditions will continue to bring water conservation and wildfire concerns for our Chapter areas. Fortunately, many of our Chapter members have experience in drought-tolerant stabilization and post-fire mitigation measures, as well as being experienced in erosion and sediment control requirements and practices. A list of available resources can be found on the Chapter's Website at [WCIECA Products and Services](#).

Educational and Field Events

As we head into 2022, in-person educational events and conferences are beginning to return, and Western Chapter is working to provide opportunities to allow members to come together. However, Western Chapter will continue to provide a mixture of virtual and in-person events, allowing members to participate at their comfort level.

Western Chapter hosted a virtual webinar in November on *Post-Fire Run-Off Water Quality Monitoring Studies*. This was the Chapter's first venture into self-hosting with a virtual platform and the Board will continue to seek various ways to provide education and information to Chapter members.

The first in-person event of the new year will be the IECA Annual Conference this February in Minneapolis and additional information can be found at [IECA Annual Conference and Expo](#).

As a Western Chapter Member, use Promo Code WestDEL to receive \$25 off your full conference registration!

Following that, Western Chapter will be hosting an in-person field day in South Lake Tahoe in August. Be on the lookout for more information as this field tour will highlight several projects related to stream, wetland, and trail restoration efforts.

PDH Opportunities

Members in need of additional PDHs this year for credential requirements can check out the [IECA eHub](#). Many webinars are free for Professional Plus members and low cost for other members.

Happy holidays and looking forward to seeing our members in 2022.

Sincerely,

Melanie Sotelo - President

Western Chapter International Erosion Control



**Melanie Sotelo MSE,
CPESC, CPSWQ
WCIECA President
msotelo@cascinc.com
CASC Engineering &
Consulting**

TAHOE/TRUCKEE FIELD TRIP, AUGUST 4 & 5, 2022

The Western Chapter of the IECA is pleased to announce the first post pandemic educational event which will take place August 4 & 5, 2022. We will return to the beautiful Sierra Nevada, including the Martis Valley in Truckee and the Upper Truckee Marsh in South Lake Tahoe. Details are pending but currently the tour will be focused on the following projects:

Upper Truckee Marsh Restoration Project, South Lake Tahoe, CA. This large, complicated water quality, wetland restoration, and wildlife habitat improvement project took 10 years of planning. The second year of construction was completed in November of 2021. Two years of post-construction plant maintenance and monitoring will follow the completion of construction in 2022. The State of California is the Owner. The project proponent is the California Tahoe Conservancy. <https://tahoe.ca.gov/upper-truckee-marsh/>.

Mainstem Martis Restoration Project, Truckee CA. Construction was completed in 2019. This project included floodplain, stream, trail, and borrow site restoration and incorporated a variety of biotechnical treatments. The Truckee River Watershed Council was the lead organization agency while the property is under the jurisdiction of the United States Army Corp of Engineers.

Martis Bike Trail Project, Segment 1B-2, Truckee CA. This segment was completed in the fall of 2021/2022. Under the jurisdiction of the US Army Corp of Engineers in an environmentally and archaeologically sensitive valley, this project took 10 years to permit. Erosion and sediment control BMPs were customized for this project and will provide good topics for discussion. It is adjacent to the Mainstream Martis Project. The Northstar Community Service District is the project proponent.

Middle Martis Restoration Project. Middle Martis Creek, a tributary to Martis Creek, had been modified by historical land-uses and transportation infrastructure as it drains a steep watershed and discharges to the valley across an active alluvial fan. The design approach included: returning flows to drier areas of the alluvial fan and meadow, removing historical features that have re-routed dominant streamflow patterns, enhancing channel avulsion and sediment deposition functions, and modifying drainage pathways to encourage dispersal of flows while simultaneously preventing overflow or seepage onto roadways. Restoration included 60 acres of meadow and a mile of stream on the north side of Highway 267. The lead organization for this project, built in the fall of 2016, was the Truckee River Watershed Council.



WEBINAR RECAP

On November 4, 2021, The Western Chapter hosted a virtual webinar titled “Post Fire Run-Off Water Quality Monitoring Studies”. The presenters were Garth Engelhorn of NV5 and Rebekah Guill of Riverside County Flood Control District. We had a good showing of 27 attendees and would like to thank our Key Sponsor SWPPP CAL, and our Auxiliary Sponsors NV5, Positive Lab Service, Earth Saver Erosion Control Products, Profile, Kelley Erosion Control, Inc., and Sustane for their support of the event. Please check out these sponsors as their continued support of the Chapter’s events help us bring you education opportunities at an industry low cost of attendance. Additionally, for those that are not members of IECA and more specifically a Western Chapter Member, we ask that you consider joining and engaging the wonderful people and companies in the Erosion Control Industry both locally and internationally.

As a quick recap of the presentation, we learned about the challenges that were faced in developing a methodology of studying the water quality of a recently impacted area. With the Holy Fire and Tenaja Fires set as the backdrop for the presentation, Garth and Rebekah walked us through how a water quality study was developed, how the sampling was performed, and then what the data showed. The biggest take away from the presentation for me was that the first flush is the biggest water quality impairment event after a fire. This means that having a robust remediation plan for when a fire is extinguished, is the biggest BMP you can have to protect the water quality of the receiving waters of the impacted watersheds.

As we dive deeper into the topics of wildfires, this being the Chapter’s 5th session offered on the topic in the past year, there’s so much more we as an industry can learn. If you have questions related to wildfire prevention, management, or remediation, please contact any of the Chapter Board Members to discuss and we can produce another thought provoking and timely webinar to address it. On behalf of the Board of Directors for the Western Chapter and IECA as a whole, thanks again for attending, and we look forward to seeing you again (hopefully in person) soon.

Cheers!



Director Matthew Renaud

CPESC, CESSWI, QSD/P ToR

Sediment Study Findings

Facility Maintenance:
Material Removed (Oct 2018 – April 2019)


- Leach Canyon Dam ~99,424 CY
- McVicker Debris Basin ~79,480 CY



Nutrient Reduction Analysis
Sediment Testing (Totals from two Facilities)

- Total N Removed: 7,527 tons
- Total P Removed: 120 tons

<https://rcwatershed.org/programs/monitoring/#33-34-sar-post-fire-monitoring-report-for-the-2018-holy-fire>



RIVERSIDE COUNTY
WATERSHED PROTECTION

42

MASTER CLASS IN EROSION AND SEDIMENT CONTROL – FEBRUARY 2 & 3



MASTER CLASS

in



Erosion and Sediment Control

with Post-Fire Remediation and Field Demonstrations

February 2-3, 2022

Irvine, CA

(Quail Hill Community Center)

\$350 All Inclusive

16.0 Professional Development Hours (PDHs)



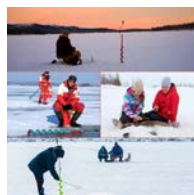
Information/Registration at <https://wciecamasterclass.eventbrite.com>

2022 IECA 50TH ANNIVERSARY ANNUAL CONFERENCE & EXPO

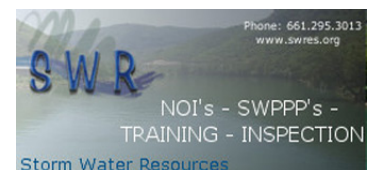
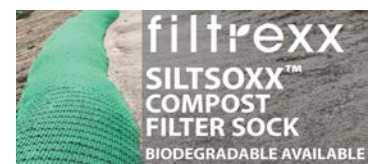


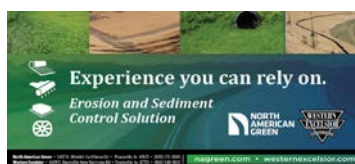
Attend this one-of-a-kind conference to connect with thousands of colleagues from over 25 countries, engage in innovative educational sessions while earning professional development hours and access one of the largest expo halls in the industry.

Embrace winter in Minneapolis with the unique experience of [Ice Fishing](#).



Not thrilled about being in winter? Once there you don't have to venture outdoors with 9.5 miles of climate-controlled skyways! Intrigued? Check out [Minneapolis, Minnesota](#) and the [Minneapolis Convention Center](#).





REGIONAL NEWS FROM IECA

TOP NEWS

[CA. offers \\$15B for water infrastructure, climate](#)

California Gov. Gavin Newsom has signed a \$15 billion funding package containing \$5.2 billion for drought and water resilience projects, as well as funding for climate, wildfire, and net-zero vehicle efforts. The water portion of the package will help fund wastewater and drinking water modernization projects, recycled water capacity expansions, new reservoirs, and emergency drought relief for small water systems. **Full Story:** [San Jose Mercury News \(CA.\) \(tiered subscription model\)](#) (9/24)

POLICY & REGULATION

[Opinion: NV. needs to reinforce waterway protections](#)

Nevada should align with the Biden administration's efforts to protect the nation's wetlands and waterways, writes the Las Vegas Sun editorial board. The board argues that recurrent drought and climate change add urgency to this mission, especially since Nevada ranks second in the nation for the amount of toxic chemicals released into the environment. **Full Story:** [Las Vegas Sun](#) (12/1)

[Judge restores state, tribal authority over pipelines](#)

Federal Judge William Alsup of the US District Court for the Northern District of California has overturned a Trump-era rule that restricted state and tribal authority under the Clean Water Act to halt pipelines and other energy projects that could threaten waterways. The Environmental Protection Agency is working on a new regulation, which it expects to publish in spring 2023. **Full Story:** [The Hill](#) (10/22)

[Expert: Sediment restoration key to saving CA. beaches](#)

Southern California beaches are losing crucial quantities of sand, largely due to development and land use that have disrupted natural replenishment processes, writes Brett Sanders, a professor at the University of California at Irvine. Looking ahead, Sanders says that addressing climate change could help a great deal, but he also recommends several measures to restore the supply of sediment. **Full Story:** [Los Angeles Times \(tiered subscription model\)](#) (9/28)

[Rolling back Trump's environmental policies takes time](#)

The Biden administration has undone 42 of the Trump administration's environmental actions and is targeting another 73, but it has yet to act on 122 more, a tracker from The Washington Post shows. Experts say rulemaking and scientific review processes can take a while, but the Biden White House has made some progress on the Waters of the US rule. **Full Story:** [The Hill](#) (9/23)



REGIONAL NEWS FROM IECA

EROSION/SEDIMENT CONTROL

Research explores river sediment role as coastal shield

Researchers from the US Geological Survey's Pacific Coastal Marine Science Center are studying how activities such as forest clear-cutting and the construction of dikes and dams in the West have had adverse effects on the flow of rivers and sediment. Their work in San Francisco Bay and Washington state's Skagit Bay will focus on marshes, sandbars, dunes, barrier islands and other landforms serving as buffers against waves and storms. **Full Story:** [U.S. Geological Survey](#) (11/15)

Report: No easy answers for Hawaii shoreline erosion

Erosion is endemic along 70% of Hawaii's beaches on Maui, Kauai and Oahu, and there's no easy or enduring solution, according to a report by Shellie Habel, a coastal geologist with the University of Hawaii Sea Grant Program. Habel examines various possibilities, including shoreline hardening and restoration, but notes drawbacks with each. **Full Story:** [Lahaina News \(Hawaii\)](#) (10/22)



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SEND US YOUR VIDEOS AND PICTURES

A Chapter Promotional Video will be created soon. We need pictures and/or videos that highlight erosion control and landscapes in CA, AZ, HI & NV! Send in your videos and pictures for Chapter promotion. If we use yours, we will send you a \$25 gift card. Email or send a link to westernchapter@gmail.com.



REGIONAL NEWS FROM IECA

STORMWATER MANAGEMENT

[USACE, Honolulu officials rethink flood control efforts](#)

The US Army Corps of Engineers and local officials in Honolulu are discussing other ways to reduce flooding in the Ala Wai watershed after pulling the plug on an over-budget project. "The fact that we were designing for a storm that had never been experienced in the community is probably the definition of over-engineering," said Lt. Col. Eric Marshall of the original design, which would have cost \$651 million. **Full Story:** [KHNL-TV/KGMB-TV \(Honolulu\)](#) (11/19)

[Modeling points to remedies for besieged CA. coast](#)

Coastal modeling indicates California's coast is losing its beaches not only because of rising seas, but also due to hindered sediment flow to the coast caused by extensive inland development. Experts say remedies may include beach replenishment and dunes with plantings to stabilize them, but some structural retreat will also be required. **Full Story:** [PhysOrg/University of California, Irvine](#) (11/16)

[Lake Tahoe's water clarity OK following Caldor Fire](#)

The natural filtration provided by rivers, marshes, meadows, and wetlands in the Lake Tahoe area kept the lake's turbidity at normal levels during a late October atmospheric river storm. The League to Save Lake Tahoe said the result is encouraging after last summer's Caldor Fire greatly increased turbidity on the Upper Truckee River. **Full Story:** [The Sacramento Bee \(CA.\) \(tiered subscription model\)](#) (11/17)

[NV. city suggests stormwater fee to fund projects](#)

Reno, NV., is seeking approval for a proposed stormwater fee that would help it fund a backlog of stormwater management projects. The fee would generate about \$15 million annually for improvements, compared to the \$5.25 million the city currently collects each year for stormwater projects through sewer fees. **Full Story:** [Reno Gazette-Journal \(NV.\) \(tiered subscription model\)](#) (10/12)

[CA. to help fund Pajaro River levee system rebuild](#)

California Gov. Gavin Newsom has signed legislation that will lessen the financial burden for local governments involved in the roughly \$400 million rebuild of the Pajaro River levee system. The rebuild is intended to bring 100-year flood protection, according to state Sen. John Laird, who authored the bill. **Full Story:** [Santa Cruz Sentinel \(CA.\)](#) (9/27)

Check out the [IECA Resource Library](#) and [eHub](#) for all your educational needs!

Western Chapter Past [Webinars](#) can be viewed on demand.

Post-Fire Run-Off Water Quality Monitoring Studies ([Online](#))

Stormwater Compliance on Construction Sites Through Teamwork ([Online](#))

Wildfire Planning and Remediation in the Western US ([Online](#))

REGIONAL NEWS FROM IECA

WETLANDS & COASTAL RESTORATION

CA. shoreline oil cleanup nearly finished

Oil that leaked from an offshore pipeline in October has been cleaned up from about three-quarters of the affected Southern California beaches, officials say. The final stages of cleanup are reportedly underway on the remaining affected beaches in Orange and San Diego counties. **Full Story:** [The Associated Press](#) (11/30)

Plans advancing to preserve Oxnard, CA., beach

An updated plan to preserve 630 acres of Ormond Beach in Oxnard, CA., is undergoing review by the State Coastal Conservancy, the Nature Conservancy and Oxnard officials. Landscape changes in the updated plan are intended to preserve ecosystems and "balance restoration and public access so that sensitive habitats can be restored and at the same time public access can be improved," says the Nature Conservancy's Sarai Jimenez. **Full Story:** [Ventura County Star \(CA.\) \(free content\)](#) (11/24)

IECA NEWS

Did you know IECA members have exclusive access to affordable health insurance coverages?

We've partnered with LIG Solutions to keep you, your family, and your business/employees cost-effectively covered and healthy. Coverage options include major medical, Medicare, short-term health plans, vision, dental plans, critical care coverage, disability, life and additional supplemental health and wellness options including an RX program. Learn more at <https://www.ligmembers.com/IECA/>

UPCOMING WEBINARS, TRAININGS, DATES, & MEETINGS

February 2 & 3, 2022 - [MASTER CLASS in Erosion and Sediment Control: Post-Fire Remediation and Field Demonstrations](#), Irvine, CA.

February 17, 2022 - **IECA Annual Meeting** Thursday, 3:15 PM – 3:45 PM Location: 200AB Minneapolis Convention Center

Thursday, February 17, 2022 - **Western Chapter General Meeting**, 4-5 PM Minneapolis Convention Center

SAVE THE DATE!

August 4 & 5, 2022 - **Tahoe/Truckee Field Trip**. Plan to attend and make it a weekend with the family!

POST-FIRE RUN-OFF WATER QUALITY MONITORING WEBINAR THANK YOU TO OUR SPEAKERS!

Rebekah Guill - Senior
Flood Control Planner,
Riverside County Flood
Control and Water
Conservation
District/Watershed
Protection

Garth Engelhorn, CPSWQ,
QISP/Tor - Senior Project
Manager, Water Resources
NV5



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Key Sponsor

SWPPP CAL Stormwater
Management

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Sustane



PROFESSIONAL LISTINGS

Dirttime.tv is an affiliated brand of [Salix Applied Earthcare LLC](#), formed in 1996 by John McCullah. John has been involved in Watershed Management for 30 years, becoming a certified erosion specialist in 1986. The firm's work involves consulting, training, design/build of stream restoration, bioengineering, education, and awareness. Salix has published design guidance manuals, books, popular and technical articles, and informative case studies. Dirttime.tv has produced over 40 Dirt Time videos. Selecting and watching the clips of your choice then taking tests online is a popular way to earn CEUs. Visit www.dirttime.tv regularly for 'how to' info, tips, and blogs.

Earthsavers Erosion Control Products is the home of the "Original Rice Straw Wattle." Our certified weed-free wattles have been tested for sediment retention at San Diego State University and proven in field studies by Caltrans and numerous other agencies. Earthsavers wattles are available in 3 diameters, photodegradable netting, or 100% biodegradable burlap. Additionally, [Earthsavers](#) is a master distributor for a full line of erosion & sediment control products, geosynthetics and more. Our network of distributors provide local access to premium BMPs and Earthsaver's experienced staff can provide superior technical support to our distributors and their customers and specifiers.

Kelley Erosion Control, Inc. was established in 1983 is recognized throughout Nevada and California as a leader in the industry. The company 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, revegetation and project maintenance, site winterization, wetland mitigation, stream channel stabilization, planting and irrigation, mining reclamation, soil stabilizer applications, biotechnical applications, and fire restoration/rehabilitation. Phone (775) 322-7755; Fax (775) 322-6606. Contact – Claudia Chambers CPESC, CISEC, QSP Claudia@kelleyerosioncontrol.com. Visit us at www.kelleyerosioncontrol.com.

Linwood Supply, Inc. distributes the tools you need for erosion control and storm water management including Erosion Control Blankets, TRM and HP-TRM, HydroFiber™, Coir products, organic fertilizers, native and grass seed; plus, for oil spill remediation - rubberized booms, mats, and filters. Other services include written pesticide recommendations and soil testing. We will always provide you with the level of service and professionalism you deserve. Linwood Supply, Inc. is a certified small business based in California. *If Your Storm Water is as Clear as Mud™* – Please call us at (707) 678-5087, or visit us at www.linwoodsupply.com.

LSC Environmental Products exists to solve some of the industry's most persistent environmental challenges, such as erosion, revegetation, odor, dust, and waste cover, through the application of our spray-applied coatings. You probably know LSC as the "ADC guys," but we are more than that with the acquisition of Terra Novo, Inc., (best known for their EarthGuard® products); and have served the erosion and sediment control industry for almost 20 years. We are excited to offer new solutions, including soil amendment, site winterization, intermediate cover, and special waste that we believe can benefit virtually any site.

Nedia Enterprises manufactures a complete line of erosion control, sediment control, and bioengineering products that are made primarily from natural fibers. Committed to the conservation of the environment, we are constantly striving to develop products that contribute to its enhancement and protection. Our products are subject to stringent quality control measures that meet, or exceed, industry standards. [Nedia](#) offers sound technical advice on product selection and installation, with a thorough understanding of the benefits and limitations of the products. A large inventory of products in several distribution centers across the country facilitates cost-effective and timely delivery of our products. Contact 888-725-6999 or email info@nedia.com.

Rocky Mountain Bio Products supplies organic bio-fertilizers, natural soil conditioners, and soil amendments. Biosol Forte is an organic fungal and bacterial biomass from penicillin production, with unique, stable, and long-lasting nutrients for rebuilding all types of soil for revegetation. Menefee Humate is a natural soil conditioner for plant cell and root development. MycoApply mycorrhizae fungus is the amendment that aids in expanding the plant's root mass 100 to 1000 times larger, which helps plants be healthier and handle environmental stress. Our PermaMatrix is a Biotic Soil Amendment, is a topsoil replacement/alternative. Visit: www.WEFIXDIRT.com for product and distributor information.

PROFESSIONAL LISTINGS CONTINUED

Pacific Coast Seed is Northern California's premier supplier of grasses and wildflowers native to California, 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.

Filtrex is the leader in sustainable products for erosion & sediment control in industries like commercial construction, homebuilding, post-fire remediation, power & utility, solar, municipalities, DOT, and more. SiltSoxx™ compost filter socks are a high-performance, passive filtration BMP that comply with most state and federal agencies including USEPA, AASHTO, USDA NRCS and US ACE. Also available in two 100% natural, biodegradable mesh materials, eliminating the need for field removal – SiltSoxx NATURAL ORIGINAL and SiltSoxx NATURAL PLUS. Visit <http://www.filtrex.com> for free design & installation specifications, CADs, submittal forms, and webinar training.

Reno Tahoe Geo Associates, Inc. – (Formerly Marvin E. Davis & Associates) 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, materials testing, and regulatory/compliance issues to enable project approval. Phone (775) 853-9100 or visit us at <http://www.rtgeo.com/>.

Sustane Natural Fertilizer — For over 30 years of continuous operation, [Sustane Natural Fertilizer, Inc.](http://www.sustane.com) has produced the highest quality natural organic fertilizers and soil amendments distributed in the U.S. and exported to 50 countries worldwide. Sustane Natural Fertilizer maintains and operates its U.S.E.P.A. permitted compost site, manufacturing facility, and corporate offices from Cannon Falls, Minnesota. Sustane fertilizers and soil amendments provide readily available, balanced nutrition with beneficial microbiology to provide the basic soil components for exceptional plant establishment and long-term sustainability. Call 800-352-9245 to speak with a Sustane Regional Specialist, or with our International Team Leader.

Western Green (and its associated erosion control brands North American Green and Western Excelsior) is the industry leader for manufactured erosion and sediment control products, and holds the industry's most complete product line, ranging from short term ECBs to permanent HPTRM Anchored Systems. Whether your site needs short-term protection or permanent vegetation reinforcement, trust Western Green's quality brand products to handle any erosion issue you may face.

NV5 is a multi-disciplinary engineering company that is a one stop for most of your development and engineering needs. Engineering and Professional Services include (but not limited to): Civil, Environmental, Construction, Mechanical, Survey, Building Inspection, Geophysical, and Geospatial Surveys. With offices in Arizona, Nevada, California, and throughout the country, we are here to serve all your environmental and engineering needs. In the Erosion and Sediment Control Industry we focus on SWPPP compliance services (CA QSDs and QSPs, owner representation, inspection services, LID/WQMP engineering designs, etc.). Contact the Long Beach, California office for more specific details. (562) 495-5777 Matthew.Renaud@nv5.com.

HEADS UP! [2023 IECA Annual Conference and Expo](https://www.ieca.org/) Kansas City, MO