

# **SERCAL 2012** at the new UC Davis Conference Center **TECHNICAL SESSION ABSTRACTS & SCHEDULE**

*Abstracts are listed in alpha order by speaker, not in order of presentation*

## **SESSION 1 Delta Restoration — The Confluence of Water, Science & Politics**

Chair: Trevor Burwell, Ph.D., Senior Ecologist / Biology Group Leader, URS Corp.

Wednesday 16 May 1:30–3P AND Thursday 17 May 8:30–10A

**Land Suitability Analysis Models for Choosing Programmatic Habitat Mitigation Sites in the Delta.** Robert Capriola, Westervelt Ecological Services, 600 North Market Boulevard, Suite #3, Sacramento, CA 95834-1257. rcapriola@westervelt.com

**Restoration and Management for a Changing Delta.** Amy Merrill\*, Megan Keever, Bruce Orr, Stillwater Sciences, 2855 Telegraph Ave., Berkeley, CA 94720. amy@stillwatersci.com

**Tidal Wetland Restoration — What Worked and What Didn't? Lessons Learned from 10+ Years of Monitoring at Two San Francisco Bay Restoration Sites.** Michelle Orr\*<sup>1</sup>, Lindsey Sheehan<sup>1</sup>, Stephen Crooks<sup>1</sup>, Ron Duke<sup>2</sup>, Michael Rafferty<sup>3</sup>, Eric Jolliffe<sup>4</sup>. <sup>1</sup>ESA PWA, 550 Kearny Street, Suite 900, San Francisco, CA 94108; <sup>2</sup>H.T. Harvey & Associates, 983 University Ave., Building D, Los Gatos, CA 95032; <sup>3</sup>S.S. Papadopoulos & Associates, Inc., 45 Belden Place, 4th Floor, San Francisco, CA 94104; <sup>4</sup>San Francisco District US Army Corps of Engineers, 1455 Market Street, San Francisco, CA 94103. morr@esassoc.com

**Bird Response to Delta Restoration.** Anitra Pawley\*, Ron Melcer, FESSRO, North Delta Restoration Program, Department of Water Resources, PO Box 942836, Sacramento, CA 94236. apawley@water.ca.gov

**Restoring Prospect Island.** Stuart Siegel\*<sup>1</sup>, Melissa Carter<sup>1</sup>, Dan Gillenwater<sup>1</sup>, Dennis McEwan<sup>2</sup>, Ling-ru Chu<sup>2</sup>, Pamela Lindholm<sup>2</sup>, Gina Benigno<sup>2</sup>, Bruce Orr<sup>3</sup>, Noah Hume<sup>3</sup>. <sup>1</sup>Wetlands and Water Resources, 818 Fifth Avenue, Suite 208, San Rafael, CA 94901; <sup>2</sup>Department of Water Resources, 3500 Industrial Boulevard, West Sacramento, CA 95691; <sup>3</sup>Stillwater Sciences, 2855 Telegraph Ave., Berkeley, CA 94720. stuart@swampthing.org

**Benefits of Comprehensive Plant Community Restoration.** David Thomson\*, Aidona Kakouras, Habitats Program, San Francisco Bay Bird Observatory, 524 Valley Way, Milpitas, CA 95035. dthomson@sfbbo.org

**Restoring a Floodplain in the Delta.** Mark Young, Westervelt Ecological Services, 600 North Market Boulevard, Suite #3, Sacramento, CA 95834-1257. myoung@westervelt.com

## **SESSION 2 Riparian/Wetlands Restoration — Healing the Valley's Arteries**

Chair: John Zanzi, Landscape Architect

Wednesday 16 May 1:30–5:30P AND Thursday 17 May 10:30–12P

**Dry Creek Wastewater Treatment Plant Levee Relocation Restored Floodplain Revegetation.** Ed Armstrong\*, RLA, Foothill Associates, 590 Menlo Drive, Suite 1, Rocklin, CA 95765. ed.armstrong@foothill.com

**Inundation Depth, Duration, and Temperature Influence Fremont Cottonwood Seedling Survival.** Lisa C. Auchincloss\*<sup>1</sup>, James H. Richards<sup>1</sup>, Charles A. Young<sup>2</sup>, Michael K. Tansey<sup>3</sup>. <sup>1</sup>Department of Land, Air and Water Resources, University of California, Davis, CA 95616; <sup>2</sup>Stockholm Environment Institute, 133 D Street, Davis, CA 95616; <sup>3</sup>Bureau of Reclamation MidPacific Region, 2800 Cottage Way, Sacramento, CA 95825. lauchincloss@ucdavis.edu

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## SESSION 2 **Riparian/Wetlands Restoration** continued

**Experiences with Enhancing Salmonid Habitat on the American River.** Chris Bowles, PhD, PE\*, Sam Diaz, PE, Chris Hammersmark, PhD, PE. cbec, inc. eco engineering, 1255 Starboard Drive, Suite B, West Sacramento, CA 95691. c.bowles@cbecoeng.com

**Wetlands Restoration and Management for Giant Garter Snake Habitat.** Matt Gause, Westervelt Ecological Services, 600 North Market Boulevard, Suite #3, Sacramento, CA 95834-1257. mgause@westervelt.com

**Vernal Pool Restoration — Research Tool for Endangered Species Reintroductions.** John Gerlach, SAIC, 2600 Capitol Avenue, Suite 140, Sacramento, CA 95816. gerlachjd@saic.com

**California Red-legged Frog Habitat Design Criteria and Adaptive Management in a Sediment-Laden System.** Lynn B. Hermansen\*<sup>1</sup>, David Katzev<sup>2</sup>, and Dave Shaw<sup>3</sup>. <sup>1</sup>AECOM, 2020 L Street, Suite 400 Sacramento, CA 95811; <sup>2</sup>East Bay Municipal Utility District, 375 11th Street, PO Box 24055, Oakland, CA 94623; <sup>3</sup>Balance Hydrologics, Inc., 800 Bancroft Way, Berkeley, CA 94710. lynn.hermansen@aecom.com

**Floodplain Restoration Opportunities in the Sacramento and San Joaquin Valleys.** John C. Hunter\*<sup>1</sup>, Kevin G. Coulton<sup>1</sup>, Ray McDowell<sup>2</sup>, Stacy Cepello<sup>2</sup>, Matt Wacker<sup>3</sup>, Lee D. von Gynz-Guethle<sup>1</sup>, Jonathan D. McLandrich<sup>1</sup>, Eryn Pimentel<sup>1</sup>, and Stephen Blanton<sup>1</sup>. <sup>1</sup>AECOM, 2020 L Street, Suite 400, Sacramento, CA 95811; <sup>2</sup>FloodSAFE Environmental Stewardship and Statewide Resources Office, Department of Water Resources, 1416 9th Street, Sacramento, CA 95814; <sup>3</sup>H.T. Harvey & Associates, 711 Fourth Street, Davis, CA 95616. john.hunter@aecom.com.

**Do Natural Plant Communities Occur in Created Vernal Pools?** Virginia Meyer, Graduate Group of Ecology, University of California, Davis, CA 95616; Biology Department, Sacramento City College, 3835 Freeport Blvd., Sacramento, CA 95822. meyer@scscc.losrios.edu

**Physical Constraints on Floodplain Restoration along the Middle Sacramento River.** Gerrit A.J. Platenkamp\*<sup>1</sup>, Eric W. Larsen<sup>2</sup>, Lee D. von Gynz-Guethle<sup>1</sup>, Stacy Cepello<sup>3</sup>, Marc Hoshovsky<sup>3</sup>, Ray McDowell<sup>3</sup>, and John C. Hunter<sup>1</sup>. <sup>1</sup>AECOM, 2020 L Street, Suite 400, Sacramento, CA 95811; <sup>2</sup>Department of Environmental Design, University of California, Davis, CA 95616; <sup>3</sup>FloodSAFE Environmental Stewardship and Statewide Resources Office, Department of Water Resources, 1416 9th Street, Sacramento, CA 95814. gerrit.platenkamp@aecom.com.

**Using Wetland Functional Assessments to Optimize Restoration Design.** Lauren Alleman, Erin Hathaway, Jessie Quinn\*, Ph.D., Great Ecology, 1020 Prospect St., Suite 310, La Jolla, CA 92037. jqquinn@greatecology.com

**Tassajara Creek Riparian Corridor Restoration and Monitoring Using Multiple Methods.** Patrick Reynolds, H.T. Harvey & Associates, 711 4th Street, Davis, CA 95616. preynolds@harveyecology.com

**Sediment Source Control and Wetland Mitigation Design through Comprehensive Site Assessment.** David Shaw\*<sup>1</sup>, Lynn Hermansen<sup>2</sup>, David Katzev<sup>3</sup>. <sup>1</sup>Balance Hydrologics, PO Box 1077, Truckee, CA 96160; <sup>2</sup>AECOM, 2020 L Street, Suite 400, Sacramento, CA 95811; <sup>3</sup>East Bay Municipal Utility District, 375 11th Street, PO Box 24055, Oakland, CA 94623. dshaw@balancehydro.com

**Restoring Giant Garter Snake Habitat: Challenges and Solutions at the Capital Conservation Bank.** Matt Wacker\*<sup>1</sup>, Debra Bishop<sup>1</sup>, Eric Hansen<sup>2</sup>, Dustin Smith<sup>3</sup>, Tony Frayji<sup>4</sup>, Chris Campbell<sup>5</sup>. <sup>1</sup>H. T. Harvey and Associates, 711 4th Street, Davis, CA 95616; <sup>2</sup>Eric C. Hansen Consulting Environmental Biologist, Sacramento, CA; <sup>3</sup>America's Habitats, Folsom, CA; <sup>4</sup>Frayji Design Group, Roseville, CA; <sup>5</sup>cbec, inc., West Sacramento, CA. mwacker@harveyecology.com

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## SESSION 3 **Agricultural Land Restoration** — Farming with Nature

Chair: Carol Presley, P.E., Santa Clara Valley Water District, Community Alliance with Family Farmers, Board of Directors

Wednesday 16 May 3:30–5:30P

**Market and Regulatory Trends Influencing Resource Management and Sustainability in California's Agricultural Landscape.** Melanie Beretti\*, Dawn Mathes\*, Monterey County Agricultural Commissioner's Office, 1428 Abbott Street, Salinas, CA 93901. berettim@co.monterey.ca.us, mathesdw@co.monterey.ca.us

**Would you Like Salmon with that Wine? A Grape Grower Initiated Restoration Project for the Napa River.** Andy Collison, Fluvial Team Director, ESA PWA 550 Kearny St, Suite 900, San Francisco, CA 94108. acollison@esassoc.com

**Planting Habitat on Farms: Design, Techniques, Issues.** Sam Earnshaw. Hedgerows Unlimited, PO Box 1766, Watsonville, CA 95077. hedgerows@baymoon.com

**Hedgerows Enhance Beneficial Insects on Farms in California's Central Valley.** Rachael F. Long\*<sup>1</sup>, Lora Morandin<sup>2</sup>. <sup>1</sup>University of California Cooperative Extension, Yolo County, Woodland, CA 95695; <sup>2</sup>Postdoctoral Fellow, University of California, Berkeley, Department of Environmental Science, Policy and Management. rflong@ucdavis.edu

**Quantifying Ecosystem Services to Incentivize Sustainable Land Practices.** Amy Merrill\*<sup>1</sup>, Megan Keever<sup>1</sup>, Kelli McCune<sup>2</sup>. <sup>1</sup>Stillwater Sciences, 2855 Telegraph Ave., Berkeley, CA 94720; <sup>2</sup>Sustainable Conservation, 98 Battery Street, Suite 302, San Francisco, CA 94111. amy@stillwatersci.com

**Restoring Key Floral Resources for Native Pollinators in Agricultural Landscapes.** Kimiora Ward\*, Neal Williams, Katharina Ullmann, Department of Entomology, University of California, Davis. One Shields Avenue, Davis, CA 95616. kiward@ucdavis.edu

**If You Plant It, They Will Come: Avian Use of Hedgerows in Central California Agricultural Landscapes.** Hillary M. White\*, Rachael F. Long, University of California Cooperative Extension, Yolo County, 70 Cottonwood St., Woodland, CA 95695. hwhite@ucdavis.edu

## SESSION 4 Preserving & Restoring our Iconic **Foothill Oak Woodlands**

Chair: Ralph Vigil, Director of Habitat Management, Restoration Resources, SERCAL Region 1 Director

Wednesday 16 May 1:30–5:30P

**Oak Conservation and Mitigation at the State and Local Level.** Loren E. Clark, Associate Director of Community Development Resource Agency, County of Placer, 3091 County Center Drive, Auburn, CA 95603. lclark@placer.ca.gov

**Establishing Oak Plantings as Mitigation for Transportation-Related Impacts.** Scott Eckardt, Dudek, 11641 Blocker Drive, Suite 240, Auburn, CA 95603. seckardt@dudek.com

**Using Comprehensive Data and Innovative Tools to Conserve Woodlands, Wetlands, and Rangelands in California.** Dan Gluesenkamp, The Calflora Database, 1700 Shattuck Ave. #198, Berkeley, CA 94709. dan@calflora.org

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## SESSION 4 **Foothill Oak Woodlands** continued

### **Private Lands Oak Woodland Conservation and Restoration in the Klamath-Siskiyou Bioregion.**

Iris Koski,\* Alison O'Dowd, Department of Environmental Science and Management, Humboldt State University, Arcata, CA 95521. iek1@humboldt.edu

### **Restoring Oak Woodlands in California.**

Douglas D. McCreary, UC Berkeley Emeritus, Sierra Foothill Research and Extension Center, 82679 Scott Forbes Road, Browns Valley, CA 95918. mcreary@berkeley.edu.

### **Oak Mitigation and Oak Woodland Restoration in the City of Roseville.**

Michael-Gerold Neumann, City of Roseville, Parks & Recreation Department/Open Space Division, Urban Forester, 2005 Hilltop Circle, Roseville, CA 95747. mneumann@roseville.ca.us

### **Conservation Easements: A Tool for Protecting Oak Woodlands.**

Patrick J. Shea, Executive Director, Wildlife Heritage Foundation, 563 Second St., Suite 120, Lincoln, CA 95648. pshea@wildlifeheritage.org

## SESSION 5 **Rescue & Restoration of Valley Grasslands**

Chair: Andrew Rayburn, Ph.D., Department of Plant Sciences, UC Davis

Thursday 17 May 8:30A–12:00P

### **Seeding Native Tarplant to Reduce Yellow Starthistle in Grassland Restoration.**

Paul Aigner<sup>1</sup>, Kris Hulvey<sup>2</sup>, Cathy Koehler<sup>1</sup>. <sup>1</sup>University of California, Davis, Donald and Sylvia McLaughlin Reserve, 26775 Morgan Valley Rd., Lower Lake, CA 95457; <sup>2</sup>Ecosystem Restoration Lab, School of Plant Biology, University of Western Australia, 35 Stirling Highway, Crawley, Western Australia 6009. paaigner@ucdavis.edu

### **Defining Grassland Vegetation Assemblages in the Great Valley.**

Jennifer Buck-Diaz\*, Julie Evens, California Native Plant Society, 2707 K Street, Suite 1, Sacramento, CA 95816. jbuck@cnpns.org.

### **Effects of Soil Inoculation and Topsoil Addition on Grasses at a Mine Restoration Site.**

Taraneh Emam\*, Valerie Eviner, Kevin Rice, Department of Plant Sciences, University of California, Davis, 1210 PES Mail Stop 1, One Shields Ave, Davis, CA 95616. tmemam@ucdavis.edu

### **Vernal Pool Soil Properties and Their Role in Restoration Success.**

Akasha M. Faist\*, Sharon K. Collinge<sup>2</sup>. <sup>1</sup>Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO 80309; <sup>2</sup>Department of Ecology and Evolutionary Biology and Environmental Studies Program, University of Colorado, Boulder, CO 80309. akasha.faist@colorado.edu

### **Active and Passive Techniques in Valley Grassland Restoration.**

Bobby Kamansky, Principal Biologist, Kamansky's Ecological Consulting, PO Box 731, Three Rivers, CA 93271; College of Sequoias, 915 S. Mooney Boulevard, Visalia, CA 93277. bobbyk@cos.edu

### **Collaborative Regional Advance Mitigation Planning (RAMP) by California's Largest Infrastructure Agencies.**

Helen Birss<sup>1</sup>, Debra Bishop<sup>2</sup>, Vance Howard<sup>3</sup>, Patrick Huber<sup>4</sup>, Brenda Johnson<sup>1</sup>, Natasha Nelson<sup>\*5</sup>, Liz O'Donoghue<sup>6</sup>, Susan Sanders<sup>3</sup>, Andrea Williams<sup>7</sup>. <sup>1</sup>California Department of Fish and Game, 1416 Ninth Street, 12th Floor, Sacramento, CA 95814; <sup>2</sup>H.T. Harvey and Associates, 711 4th St., Davis, CA 95616; <sup>3</sup>AECOM, 2020 L St., Suite 400 Sacramento, CA 95811; <sup>4</sup>University of California, 127 Hunt, One Shields Ave., Davis, CA 95616; <sup>5</sup>California Department of Water Resources, PO Box 942836, Sacramento, CA 94236; <sup>6</sup>The Nature Conservancy, 201 Mission St., 4th Floor, San Francisco, CA 94105; <sup>7</sup>California Department of Transportation, PO Box 942876, Sacramento, CA 94273. nelsonN@water.ca.gov

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## SESSION 5 **Valley Grasslands** continued

**Spatial Methods for Low-cost Restoration of Rangeland Ecosystem Services.** Andrew P. Rayburn<sup>1\*</sup>, Toby O'Geen<sup>2</sup>, Mel George<sup>1</sup>, Emilio A. Laca<sup>1</sup>.  
<sup>1</sup>UC Davis, Dept. of Plant Sciences, One Shields Ave., Davis, CA 95616; <sup>2</sup>UC Davis, Dept. of Land, Air and Water Resources, One Shields Ave., Davis, CA 95616.  
aprayburn@ucdavis.edu

**Can Planting Mono-specific Patches Increase Diversity in California Prairie Restoration?** Truman P. Young\*, Lauren M. Porensky, Kurt J. Vaughn, Dept. of Plant Sciences and Graduate Group in Ecology, University of California, Davis, CA 95616.  
tpyoung@ucdavis.edu

## SESSION 6 **Community-Based Restoration** — Building and Strengthening Natural Systems & Human Communities

Chair: Matt Yurko, Restoration Education Program Manager, California Coastal Commission  
Thursday 17 May 8:30A–12:00P

**Designing for Community-Based Ecological Restoration and Education.** Rajan L. Brown, HEI Landscape Management, 2180 La Mirada Drive, Vista, CA 92081. rbrown@heaviland.net

**CalWeedMapper: Setting Regional Management Priorities for Invasive Plants.** Doug Johnson, Elizabeth Brusati\*, Dana Morawitz, Falk Schuetzenmeister, Cynthia Powell, Suzanne Harmon, Tony Morosco, California Invasive Plant Council, 1442-A Walnut St. #462, Berkeley, CA 94709. edbrusati@cal-ipc.org

**Implementation of Youth Leadership Models for Teaching Wetland Restoration.** Seth Chanin\*, Dylan Chapple, Save The Bay, 1330 Broadway, Suite 1800, Oakland, CA 94612. seth@savesfbay.org

**Integrating Compatible Wildlife Habitat into California's Agricultural Landscape: Lessons Learned from a Decade of Implementing On-Farm Habitat.** Miles DaPrato, Habitat Restoration Project Manager, Audubon California Landowner Stewardship Program, PO Box 733 Winters, CA 95694. mdaprato@audubon.org

**Community-Based Restoration of Giant Kelp Forests, Santa Monica Bay.** Tom Ford, MA, Director of Marine Programs, Santa Monica Bay Restoration Foundation, 1 LMU Drive, North Hall MS 8160, Los Angeles, CA 90045. tford@santamonibay.org

**U.S. Fish & Wildlife Service Schoolyard Habitat Project Guide and Program.** Carolyn Kolstad\*, Karen Mullin, Karleen Vollherbst\*, U.S. Fish & Wildlife Service, 13501 Franklin Blvd, Galt, CA 95816. Carolyn\_kolstad@fws.gov, Karleen\_vollherbst@fws.gov.

**Conservation through Community-based Restoration in City Heights' Swan Canyon.** Jeannine Ross<sup>1</sup>, Lindsay Goodwin<sup>2</sup>, Carla Pisbe<sup>2</sup>.  
<sup>1</sup>RECON Environmental, Inc., 1927 Fifth Avenue, San Diego, CA 92101. <sup>2</sup>Ocean Discovery Institute, 2211 Pacific Beach Drive, San Diego, CA 92109. jross@reconenvironmental.com

**Student and Landowner Education and Watershed Stewardship (SLEWS).** Nina Suzuki\*, Matt Lechmaier, Center for Land-Based Learning, 5265 Putah Creek Road, Winters, CA 95694. nina@landbasedlearning.org