

CURRICULUM VITAE

John C. Stella

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EDUCATION

University of California, Berkeley	Environmental Science, Policy and Management	Ph.D.	2005
University of California, Berkeley	Environmental Science, Policy and Management	M.S.	1998
Yale University	Architecture	B.A.	1988

APPOINTMENTS

Assistant Professor, Dept. of Forest and Natural Resource Management, SUNY-ESF, 2006–present
Adjunct Assistant Professor, Dept. of Geography, Syracuse University, 2009–present
CALFED Science Program Post-Doctoral Research Fellow, University of California, Berkeley, 2006
Senior Ecologist / Project Manager, Stillwater Sciences, Berkeley, CA, 1998–2006
Doctoral Student Researcher, University of California, Berkeley, 2000–2005

RESEARCH GRANTS

USDA Forest Service, Northeastern States Research Cooperative. *Quantifying Beaver Impacts on Adirondack Forest Communities at a Landscape Scale*. 2012–2014. J.C. Stella (PI), E. Bevilacqua (Co-PI) and J. Frair (Co-PI). \$106,866.

National Science Foundation EAR-1024820. *Quantifying Feedbacks between Fluvial Morphodynamics and Pioneer Riparian Vegetation in Sand-Bed Rivers*. 2010–2013. A.C. Wilcox, J.C. Stella (PI) and A.F. Lightbody. \$650,000

SUNY-ESF, Research Seed Grant. *A New Tool for Restoration Ecology: Stable Carbon Isotopes in Tree Rings as Indicators of Ecosystem Change*. J.C. Stella (PI) and M. Teece (Co-PI). \$8,000.

Western Caucus Pooled Fund. *Riparian Study Development for the Lower Yuba River*. \$7,000. 2010–11.

McIntire-Stennis Research Program, SUNY-ESF. *Restoring Small, Ephemeral Wetlands in Forested Landscapes in New York State*. 2009–2012. J.P. Gibbs, J.C. Stella (Co-PI). \$89,850.

CALFED Science Fellows Program. *Modeling physical drivers and age structure of cottonwood forest habitat: an integrated systems approach*. 2008–2010. J.C. Stella (PI) and A.K. Fremier. \$228,750.

CALFED Science Fellows Program. *Effects of river regulation and climate on sustainability of Fremont cottonwood (*Populus fremontii*) forests in California's Central Valley*. 2006–2008. J.J. Battles (PI) and J.C. Stella. \$228,750.

McIntire-Stennis Research Program, SUNY-ESF. *Quantifying riparian zone structure and function to guide management of the northern hardwood forest ecosystem*. 2008–2011. J.C. Stella (PI). \$82,000.

SUNY-ESF, Research Seed Grant. *Elemental stoichiometry and ecosystem health of Onondaga Creek*. 2008. J.C. Stella (PI) and K.E. Limburg. \$8,000.

CALFED Science Fellows Program. *A mechanistic model to evaluate and improve riparian restoration success*. 2003–2004. J.C. Stella (doctoral fellowship), with J.J. Battles (PI). \$93,491.

NSF Doctoral Dissertation Improvement Grant. *Developing a predictive understanding of recruitment and survival of pioneer riparian trees on regulated rivers*. 2003. J.C. Stella (doctoral fellowship), with J.J. Battles (PI). \$11,950.

CALFED Ecosystem Restoration Program. *A mechanistic approach to riparian restoration in the San Joaquin Basin*. 2002–2003. Research grant #1999-B152 awarded to Stillwater Sciences (Project developed by J.C. Stella; data collection used for dissertation research). \$289,666.

PUBLICATIONS

Peer-Reviewed Articles Published, in Press, and in Review (*indicates student contributor)

Stella, J.C., J. Riddle*, H. Piégay, M. Gagnage*, M-L. Trémélo. Invited article in review, *Geomorphology*. Multi-scale drivers of riparian forest decline along a Mediterranean-climate river.

Stella, J.C., P. Rodríguez-González, S. Dufour, J. Bendix. In press, invited article. Riparian vegetation research in Mediterranean-climate regions: common patterns, ecological processes, and considerations for management. *Hydrobiologia*.

Singer, M.B., **J.C. Stella**, S. Dufour, L.B. Johnstone*, H. Piégay, and R.J.S. Wilson. In press. Contrasting water uptake and growth responses to drought in co-occurring riparian tree species. *Ecohydrology*.

Eallonardo, A. S.* , D.J. Leopold, J.D. Fridley and **J.C. Stella**. In press. Salinity tolerance and the decoupling of resource axis plant traits. *Journal of Vegetation Science*

Beier C.M., **Stella J.C.**, Dovçiak M., McNulty S.A. 2012. Local climatic drivers of changes in phenology at a boreal-temperate ecotone in eastern North America. *Climatic Change* DOI 10.1007/s10584-012-0455-z

Schifman, L.A.* , **J.C. Stella**, M. Teece and T.A. Volk. 2012. Plant growth and water stress response of hybrid willow (*Salix* spp.) among sites and years in central New York. *Biomass & Bioenergy* 36: 316-326 DOI:10.1016/j.biombioe.2011.10.042

Stella, J.C., M.K. Hayden*, J.J. Battles, H. Piégay, S. Dufour, and A.K. Fremier. 2011. The role of abandoned channels as refugia for sustaining pioneer riparian forest ecosystems. *Ecosystems* 14: 776-790. DOI: 10.1007/s10021-011-9446-6

Harper, E.B., **J.C. Stella**, A.K. Fremier. 2011. Global sensitivity analysis for complex ecological models: a case study of riparian cottonwood population dynamics. *Ecological Applications* 21: 1225-1240. DOI:10.1890/10-0506.1

Downs, P.W., M.S. Singer, B.K. Orr, Z.E. Diggory, T.C. Church, and **J.C. Stella**. 2011. Restoring ecological integrity in highly regulated rivers: The role of baseline data and analytical references. *Environmental Management* 48:847-864. DOI: 10.1007/s00267-011-9736-y

Stella, J.C., and J.J. Battles. 2010. How do riparian woody seedlings survive seasonal drought? *Oecologia* 164:579–590. DOI: 10.1007/s00442-010-1657-6

Stella, J.C., J.J. Battles, J.R. McBride, B.K. Orr. 2010. Riparian seedling mortality from simulated water table recession, and the design of sustainable flow regimes on regulated rivers. *Restoration Ecology*. 18(S2): 284–294. DOI: 10.1111/j.1526-100X.2010.00651.x

Rodríguez-González, P.M.* , **J.C. Stella**, F. Campelo, T. Ferreira, A. Albuquerque. 2010. Subsidy or stress? Tree structure and growth in wetland forests along a hydrological gradient in southern Europe. *Forest Ecology and Management* 259: 2015–2025. DOI:10.1016/j.foreco.2010.02.012

Stella, J.C., J.J. Battles, B.K. Orr, J.R. McBride. 2006. Synchrony of seed dispersal, hydrology and local climate in a semi-arid river reach in California. *Ecosystems* 9:1200-1214. DOI: 10.1007/s10021-005-0138-y

Book Chapters and Conference Proceeding Papers (*indicates student contributor)

Bendix, J., and **J.C. Stella**. In press. Riparian Vegetation and the Fluvial Environment: A Biogeographic Perspective. In *Treatise on Geomorphology 12: Ecogeomorphology* (D. Butler and C. Hupp, Eds.). Elsevier, San Diego.

Stella, J.C., J.D. Riddle, J.J. Battles, M.K. Hayden*, and A.K. Fremier. (in press) Riparian forest dynamics on a large, regulated river (California, USA): impacts and implications for management. Proceedings of the Integrative Sciences and Sustainable Development of Rivers (IS Rivers) Conference, Lyon, France, 26–28 June 2012.

Stella, J.C., J.C. Vick, B.K. Orr. 2004. Riparian vegetation dynamics on the Merced River. *The Wilderness Society Riparian Floodplains Conference Proceedings*. Sacramento, CA. March 2001.

Stella, J.C. 1998. The Greywacke Cover-up. *Soil Survey Horizons* 39(4): 127-130.

Articles in Preparation for Peer-Review Journals (*indicates student contributor)

Harrison, A.M.*, **J.C. Stella**, S. McNulty and J. Frair. (in prep.) Landscape factors affecting long-term site occupancy by beaver in the Adirondack Mountains, NY

Stella, J.C., Z.E. Diggory, J.J. Battles and B.K. Orr. (in prep.) Survival and growth of riparian trees planted on floodplain dredger spoils along the Merced River, CA.

Dufour, S., M.K. Hayden*, **J.C. Stella**, H. Piégay, J.J. Battles. (in prep.) Composition and diversity patterns of terrestrial vegetation colonizing abandoned channels along a meandering river (Sacramento, USA).

Applied Research Reports and Non-Peer Reviewed Articles

Stella, J.C. Yuba River Riparian Study: Cottonwood Limiting Factors Analysis. Prepared for Yuba County Water Agency. Yuba River Development Project, FERC Project No. 2246, March 2011.

Stillwater Sciences. 2006. Restoring recruitment processes for riparian cottonwoods and willows: a field-calibrated predictive model for the lower San Joaquin Basin. Prepared for CALFED Bay-Delta Ecosystem Restoration Program, Sacramento, California. Prepared by Stillwater Sciences and Dr. **J.C. Stella**, in conjunction with Dr. J.J. Battles and Dr. J.R. McBride, Department of Environmental Science, Policy, and Management, University of California, Berkeley. (<http://www.stillwatersci.com/resources/2006riperecruitbrochure.pdf>)

Stillwater Sciences. 2006. Merced River Ranch revegetation experiment. Prepared by Stillwater Sciences, Berkeley, California, for CALFED, Sacramento, California. (http://merced.stillwatersci.com/pdf/10/Tech%20Memo_10_Reveg%20Expt_compiled.pdf)

Stillwater Sciences. 2002. Merced River corridor restoration plan. Prepared by Stillwater Sciences, Berkeley, California for CALFED Bay-Delta Program, Sacramento, California (<http://www.stillwatersci.com/resources/2004mercedrestoplan.pdf>)

Stillwater Sciences. 2001. Merced River Restoration Plan Phase II. Volume II: Baseline evaluations; geomorphic and riparian vegetation investigations. Prepared by Stillwater Sciences, Berkeley, CA for CALFED Bay-Delta Ecosystem Restoration Program, Sacramento, CA. (<http://www.stillwatersci.com/resources/2001mercedrestov2.pdf>)

HONORS AND AWARDS

Schubert Prize, Dept. of Environmental Science, Policy and Management, UC Berkeley, 2005

Colman Fellowship in Watershed Management, UC Berkeley, 2000, 2003

ESPM Departmental Fellowships, UC Berkeley, 1996, 1997, 2000

INVITED PRESENTATIONS AND FEATURES

Stella, J.C. (invited). *Com'Eau Labo Workshop* - Better communication and collaboration between managers and scientists: discussions about current practices in France and the United States IS Rivers International Conference (Integrative Sciences and Sustainable Development of Rivers), Lyon, France. 26–28 June 2012.

Stella, J.C. (invited). Réponse des ripisylves à une modification du régime hydrologique : diagnostic et propositions de restauration (Riparian forest response to modified riparian hydrological regimes: diagnosis and proposals for restoration). Colloque 13: Réhabilitation des hydrosystèmes: enjeux scientifiques et nouvelles perspectives (“Symposium 13: Rehabilitation of hydrosystems: scientific issues and new perspectives”). Entretiens Jacques Cartier 2011. Montreal, Canada, 3–4 October, 2011.

Stella, J.C. (invited), J. Riddle*, H. Piégay, 2011. Dendroecology as an indicator of riparian function and drivers of meso-scale ecosystem impacts. International Association of Vegetation Science Meeting, Lyon, France, 20–24 June 2011.

Stella, J.C. (invited), J. Riddle*, H. Piégay, M. Teece, 2011. Integrating tree-ring and stable carbon isotope analysis to measure riparian ecosystem function, integrity, and meso-scale hydrogeomorphic impacts. Seventh Symposium for European Freshwater Sciences, Girona, Spain, 27 June – 1 July, 2011.

Stella, J.C. (invited) 2009. A river runs through it: modeling and restoring riparian forests on dynamic floodplains. Invited speaker, Bowdoin College Biology Seminar Series. Brunswick, ME. September 24, 2009.

Stella, J.C. (invited) 2009. Abiotic Controls on Riparian Forest Development at Leaf to Landscape Scales. Invited speaker, Syracuse University Biology Seminar Series. Syracuse, NY. February 6, 2009.

Stella, J.C. (invited) 2007. Scaling from the leaf to the floodplain: Linking physiology studies with life history traits to restore streamside forests in arid regions. IGERT Biogeochemistry and Environmental Biocomplexity Seminar, Cornell University. Ithaca, NY. October 19, 2007.

Stella, J.C. (invited) 2007. Quantitative approaches to restoring streamside forests in a water-limited ecosystem. Department of Geography Symposium, Syracuse University. Syracuse, NY. September 22, 2007.

Stella, J.C. (invited) 2006. Quantitative approaches to riparian restoration in California (USA). River Restoration International Symposium. Madrid, Spain. September 19–21, 2006.

Stella, J.C. (special feature) 2003. Research featured in *Forests Round the Bend*, a special issue on riparian restoration efforts on the Sacramento River. Science-In-Action Newsletter, CALFED Bay-Delta Program. Sacramento, CA

CONFERENCE PRESENTATIONS (*indicates student contributor)

Stella, J.C. J.D. Riddle*, J.J. Battles, M.K. Hayden*, A.K. Fremier. Riparian forest dynamics on a large, regulated river (Sacramento, California, USA): impacts and implications for management. IS Rivers International Conference (Integrative Sciences and Sustainable Development of Rivers), Lyon, France. 26–28 June 2012. (accepted)

Kui, L.*, **J.C. Stella**, K. Skorko*, A. Lightbody, A.C. Wilcox, S. Bywater-Reyes*. Flood effects on native and exotic woody riparian seedlings. Oral presentation at the Annual Meeting of the Ecological Society of America, Portland, OR, 5–10 August 2012. (accepted)

Skorko, K.*, A. Lightbody, Kui, L.*, **J.C. Stella**, A.C. Wilcox. Hydraulic and topographic response of sand-be rivers to riparian vegetation presence and patterns: field-scale laboratory methods and results. 2012 Hydraulic Measurements and Experimental Methods Conference (HMEM 2012). Snowbird, UT. 12–15 August 2012. (accepted)

Stella J.C., G.M. Kondolf, P. Rodríguez-González, C. Anderson, A. Albuquerque, S. Walls* and T. Ferreira. Regulation effects on riparian vegetation composition and structure in the Sado River basin, Portugal. XVI Congress of the Iberian Association of Limnology. Guimarães, Portugal. 2–6 July, 2012. (accepted)

Wilcox, A.C., P.B. Shafroth, A. Lightbody, **J.C. Stella**, S. Bywater-Reyes*, L. Kiu*, and K. Skoroko*. Feedbacks among floods, pioneer woody vegetation, and channel change in sand-bed rivers: insights from field studies of controlled flood releases and models. European Geophysical Union, Vienna, Austria. 3–7 September 2012. (accepted)

Stella, J.C., J. Riddle; H. Piégay; M. Teece. Tree-ring growth and stable carbon isotope indicators of hydrogeomorphic change in dryland riparian zones. Oral presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, December 2011.

Singer, M.B., S. Dufour, **J.C. Stella**, L.B. Johnstone*, H. Piégay, and R.J.S. Wilson. Contrasts in growth and water sources in co-occurring Mediterranean riparian tree species: evidence from tree ring isotopes and dendrochronology. Poster H11E-1097 at the American Geophysical Union Fall Meeting, San Francisco, CA, December 2011.

Eallonardo, A. S.*, D.J. Leopold, J.D. Fridley and **J.C. Stella**. Linking plant traits to stress and resource gradients in inland salt and freshwater marsh communities. Northeast Natural History Conference, Albany, NY, 6-9 April 2011.

Stella, J.C. (Convener), J. Bendix, H. Piégay, and P. Downs. Special session on “Non-equilibrium Drivers in Mediterranean Climate River and Riparian Ecosystems” at the American Geophysical Union Fall Meeting, San Francisco, CA, December 2010.

Stella, J.C., J. Riddle; H. Piégay; M. Gagnage; M. Trémolo. Multi-Scale Drivers of Riparian Forest Decline Along a Mediterranean-Climate River. Poster at the American Geophysical Union Fall Meeting, San Francisco, CA, December 2010.

Harper. E.B., **J.C. Stella**, A.K. Fremier. Multiscale Validation of a Spatially Explicit Demographic Model of Fremont Cottonwood on the Sacramento River. Poster at the 6th Biennial CALFED Science Conference (Ecosystem Sustainability : Focusing Science on Managing California’s Water Future), 27-29 September 2010, Sacramento, California.

Hayden, M.K.*; J.J. Battles, **Stella, J.C.** Drivers of Pioneer Riparian Forest Establishment within Abandoned Channel Refugia. Poster at the 6th Biennial CALFED Science Conference (Ecosystem Sustainability : Focusing Science on Managing California’s Water Future), 27-29 September 2010, Sacramento, California.

Harper. E.B., **J.C. Stella**, A.K. Fremier. Multiscale validation of a spatially explicit patch-based population model: Understanding the population dynamics of Fremont cottonwood in the Sacramento River watershed. Oral presentation at the Annual Meeting of the Ecological Society of America, Pittsburgh, PA, August 2010.

Harrison, A.M.*; **J.C. Stella**. Engineering the forest ecosystem: impacts on woody vegetation structure and composition by beaver, a central place forager. Oral presentation at the Annual Meeting of the Ecological Society of America, Pittsburgh, PA, August 2010.

Eallonardo, A. S.*, D.J. Leopold, J.D. Fridley and **J.C. Stella**. The salinity tolerance axis and other functional drivers of inland salt marsh assembly. Oral presentation at the Annual Meeting of the Ecological Society of America, Pittsburgh, PA, August 2010.

Bendix, J. and **J.C. Stella**. 2010. A Geographic Analysis of Riparian Biogeomorphology. Annual Meeting of the American Association of Geographers. Washington, D.C, April 2010.

Harrison, A.M.*, **J.C. Stella**, S.E. McNulty. 2010. The influence of landscape factors on beaver (*Castor canadensis*) occupancy in the Adirondack region of NY. Adirondack Research Consortium Annual Conference, Lake Placid, NY. 20 May 2010.

Stella, J.C. (Convener), A.K. Fremier, S. Dufour, and H. Piégay. *Special session* on “Ecological Processes on Abandoned Riparian Floodplains” at the Annual Meeting of the Ecological Society of America, Albuquerque, NM, August 2009.

Stella, J.C., E.B. Harper, A.K. Fremier. 2009. Quantifying geomorphic process controls on riparian forest dynamics using a linked physical-biological model: implications for river corridor conservation. Oral presented at American Geophysical Union Fall Meeting, San Francisco, CA, December 15-19, 2009.

Harper, E.B., **J.C. Stella**, A.K. Fremier. 2009. Identifying data gaps and prioritizing restoration strategies for Fremont cottonwood using linked geomorphic and population models. Poster presented at American Geophysical Union Fall Meeting, San Francisco, CA, December 15-19, 2009.

Stella, J.C., E.B. Harper, A.K. Fremier, M.K. Hayden, J.J. Battles. 2009. Using a patch dynamics approach to model cottonwood forest populations in river floodplains Oral presentation at the Annual Meeting of the Ecological Society of America, Albuquerque, NM. August 2-7, 2009.

Harper, E.B., **J.C. Stella**, A.K. Fremier. 2009. Ecologically meaningful sensitivity analyses: A case study of Fremont cottonwood (*Populus fremontii*). Oral presentation at the Annual Meeting of the Ecological Society of America, Albuquerque, NM. August 2-7, 2009.

Hayden, M.K., **J.C. Stella**, J.J. Battles, S. Dufour, and H. Piégay. 2009. Drivers of pioneer riparian forest dynamics in abandoned channels: an alternate recruitment pathway? Oral presentation at the Annual Meeting of the Ecological Society of America, Albuquerque, NM. August 2-7, 2009.

Rodríguez-González, P.M., **J.C. Stella**, F. Campelo, T. Ferreira, A. Albuquerque. 2009. Hydrologic controls on stand structure, tree architecture and growth in southern-European forested wetlands. Oral presentation at the 6th Symposium for European Freshwater Sciences, Bucharest, Romania.

Harper, E.B., **J.C. Stella**, A.K. Fremier. 2009. Ecologically meaningful sensitivity analyses: A case study of Fremont cottonwood (*Populus fremontii*). Poster presentation at the NSF Idaho EPSCoR Annual Meeting, Moscow, ID. Aug 31-Sept 1 2009.

Gehl, K.L., K.E. Limburg, **J.C. Stella**, 2009. Three Watershed Approaches for Evaluating Nutrient Loads, Onondaga Creek, NY. Poster presentation. Healthy Buildings 2009 Conference and Exhibition. Sept. 15, 2009.

Stella, J.C., M.K. Hayden, J.J. Battles, H. Piégay, S. Dufour, and A.K. Fremier. 2008. A Conceptual Model of Riparian Forest Response to Channel Abandonment on Meandering Rivers. EOS Transactions of the American Geophysical Union, Fall 2008 Meeting Supplement, Abstract H31H-07 (Fall 2008 AGU meeting, San Francisco, CA, December 15-19).

Stella, J.C., J.J. Battles, J.R. McBride, B.K. Orr. 2008. Riparian seedling mortality in semi-arid ecosystems and applications to river restoration. Oral presentation at the 5th Biennial CALFED Science Conference (Global Perspectives and Regional Results: Science and Management in the Bay-Delta System), 22-24 October, 2008, Sacramento, California.

M.K. Hayden, **J.C. Stella**, J.J. Battles, S. Dufour, and H. Piégay. 2008. Riparian forest patterns in abandoned channels on the middle Sacramento River: an alternative recruitment pathway for pioneer riparian vegetation in gravel-bed meandering rivers. Oral presentation at the 5th Biennial CALFED Science Conference (Global Perspectives and Regional Results: Science and Management in the Bay-Delta System), 22-24 October, 2008, Sacramento, California.

Fremier, A.K., J. H. Viers, **J.C. Stella**. 2008. Floodplain Heterogeneity Drives Riparian Vegetation Composition and Structure Through Channel Meander Migration and Channel Abandonment. EOS

Transactions of the American Geophysical Union, Fall 2008 Meeting Supplement, Abstract H33B-1007, (Fall 2008 AGU meeting, San Francisco, CA, December 15-19).

Dufour S., H. Piégay, M.K. Hayden, **J.C. Stella**, and J.J. Battles. 2008. Impacts de la dynamique sédimentaire sur la végétation terrestre en plaine alluviale, variabilité spatiale et interactions d'échelles (Impacts of sediment dynamics on terrestrial vegetation of alluvial plains, spatial variability and scaling). Séminaire "Interactions végétation et contraintes physiques" (Vegetation Interactions and Physical Constraints Workshop), 28-29 January 2008, Grenoble, France.

Stella, J.C., J.J. Battles, J.R. McBride, B.K. Orr. 2007. Using mechanistic studies to model riparian tree establishment under environmental flow scenarios on regulated rivers. 6th Annual Meeting of the American Geophysical Union. San Francisco, CA. December 10-14, 2007.

Stella, J.C., M.K. Hayden, J.J. Battles, H. Piégay, and S. Dufour. 2007. A conceptual model of geomorphically-driven riparian forest dynamics along the middle Sacramento River, California. Poster presented at the 8th biennial State of the San Francisco Estuary Conference, Oakland, CA, October 16-18, 2007.

Stella, J.C., J.J. Battles, J.R. McBride, B.K. Orr. 2007. Physiological adaptations increase survival for riparian tree seedlings subject to river stage decline. Annual Meeting of the Ecological Society of America, San Jose, CA. August 6-10, 2007.

Hayden, M.K. A.J. Keith, W.M. Swaney, C.D. Jaquette, M.D. Reil, **J.C. Stella**, and B.K. Orr. 2007. Former agricultural fields restored to riparian floodplains along the lower Tuolumne River, CA: Inundation patterns, fish use, and revegetation results. Annual Meeting of the Ecological Society of America, San Jose, CA. August 6-10, 2007.

Stella, J.C., J.J. Battles, J.R. McBride, B.K. Orr. 2006. A field-calibrated model of pioneer riparian tree recruitment for the San Joaquin Basin, CA. 6th Annual Meeting of the American Ecological Engineering Society. Berkeley, CA. April 13-14, 2006

Stella, J.C., J.J. Battles, J.R. McBride, B.K. Orr. 2006 Integrating field and experimental data to model recruitment of cottonwood and willow seedlings in the San Joaquin Basin, CA: implications for restoring riparian ecosystems. CALFED Science Conference, Sacramento, CA. 2006.

Diggory, Z., **J.C. Stella**, B. Orr, and M. Reil. 2006. Growth and survival of riparian trees two years after revegetation of graded floodplain dredger tailings at the Merced River Ranch. Poster. Presented at the Fourth Biennial CALFED Science Conference, Sacramento, California.

Stella, J.C., J.J. Battles, B.K. Orr, J.R. McBride. 2004. Riparian forest sustainability: calibrating a physical and biological recruitment model for the lower Tuolumne River, CA. Annual Meeting of the Ecological Society of America, Portland, OR.

Stella, J.C., J.J. Battles, B.K. Orr, J.R. McBride. 2004. Seed release patterns of native riparian trees and implication for flow-based restoration strategies. CALFED Science Conference, Sacramento, CA.

Stella, J.C., B.K. Orr, J.J. Battles, J.R. McBride. 2003. Riparian forest sustainability: calibrating a physical and biological recruitment model for the lower Tuolumne River, CA. North American Forest Ecology Workshop, Corvallis, OR.

Stella, J.C., B.K. Orr, J.J. Battles, J.R. McBride. 2003. Reproductive phenology and groundwater requirements for seedlings of three pioneer riparian species on the lower Tuolumne River, CA. CALFED Science Conference, Sacramento, CA.

Stella, J.C., B.K. Orr, J.J. Battles, J.R. McBride. 2002. Calibrating a model of seedling recruitment for riparian pioneer tree species on the lower Tuolumne River, CA. Annual Meeting of the Ecological Society of America, Tucson, AZ.

Stella, J.C., J.C. Vick, B.K. Orr. 2001. Riparian vegetation dynamics on the Merced River. The Wilderness Society Riparian Floodplains Conference. Sacramento, CA.

PROFESSIONAL SERVICE

Guest co-editor, special issue for *River Restoration and Applications* on ecology and geomorphology of abandoned river channels. 2011.

Journal reviews for

Ecohydrology; Global Change Biology; River Research and Applications; Hydrobiologia; Ecoscience; Wetlands; Ecological Restoration; Environmental Management; Journal of the American Water Resources Association

Proposal reviews for

- National Science Foundation
- Northeastern States Research Cooperative (USDA Forest Service)
- USDA McIntire Stennis Program

Technical reviews for:

- Platte River Recovery Implementation Program, Directed Vegetation Research Study. 2011.
- USGS Geomorphic and Sediment Transport Laboratory. Project for monitoring vegetation change on the central Platte River, NE. 2007.
- CA Regional Water Quality Control Boards. Proposed Stream and Wetlands Protection Policy for North Coast and San Francisco Bay Regions. 2006.
- CA Department of Fish and Game. Protocol for quantitative studies of riparian vegetation restoration effectiveness. 2004.
- CA Department of Water Resources. Robinson Reach revegetation and monitoring plan, Merced River, CA. 2002.

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science
Ecological Society of America
Society for Ecological Restoration
American Geophysical Union
Society of Wetland Scientists
California Native Plant Society