

## Curriculum Vitae

**John McCullah**, Certified Professional in Erosion and Sediment Control (CPESC # 311), Fluvio-geomorphologist, Bioengineer,

Salix Applied Earthcare LLC – President, 1733 Oregon St., Redding, CA 96001 USA [www.dirttime.tv](http://www.dirttime.tv)

John McCullah owns and operates Salix Applied Earthcare LLC, a consulting firm located in Redding, California. Since 1994, the company has been designing implementing Erosion Control, Watershed Restoration, Steep Slope Stabilization / Bioengineering and Biotechnical Streambank Stabilization projects, as well as developing educational materials and training programs for these disciplines.

John formed a NGO in 1996 and is Projects Manager and Executive Director of **Sacramento Watersheds Action Group** (SWAG), a community-based 501(3)(c) formed to restore salmonid, aquatic, and wildlife habitat. In Sulphur Creek, Redding CA, John, as Project Manager was responsible for **assessing erosion** and degraded riparian sites, **developing restoration designs, acquiring grant funding, and implementing restoration projects**. SWAG completed over 8 major restoration projects from 1996-2007 – implementing over \$1.2million in restoration activities and restoring form and function to 2 miles of urban salmonid stream. John not only designed and managed but also performed the construction, utilizing heavy equipment combined with bioengineering and biotechnical erosion control.

Education and Certifications:

- **BS Degree, Watershed Geology**, 1984, Humboldt State University, Arcata CA
- AA Degree, Biology, 1979, Shasta College, Redding CA
- Instructor of Natural Resources, since 1996, Shasta College, CA Community College
- Certified Professional Erosion and Sediment Control Specialist #311, 1988, 22 yrs
- **California Contractor License #551796**, 1986
- **Certified Community College Instructor**, Natural Resources, 20 yrs

Implement COST EFFECTIVE BMPs for Erosion and Sediment Control

As a part time (adjunct) instructor, John has helped develop the Shasta College Erosion Control Training Facility. With the cooperation of Shasta College, the Western Chapter of IECA and Industry Exhibitors, John has organized annual 2 and 3-day events – the **Shasta College Stream Summit** and the **BMP Summit** held each Spring. <https://www.youtube.com/watch?v=CNjfNci4a2w>

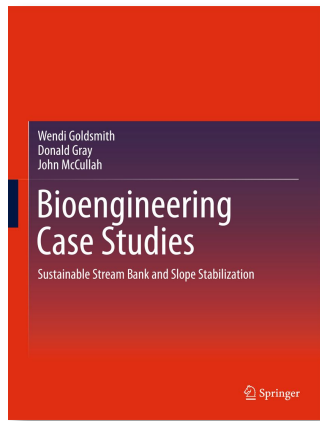
<https://www.youtube.com/watch?v=o-sdLYTZCBg>

John's has extensive experience in the area(s) of, 1.) Erosion control and construction management 2.) Streambank stabilization and channel habitat restoration / management, 3.) Landform Restoration, 4.) Roads and Trails design and mitigation 5.) Hydromodification management, and 6.) Design / Build of Watershed Restoration projects,

- **20-yr Bioengineering Designer/Practitioner**
- **Design / Build Watershed Restoration** and Streambank Stabilization Projects (17 years). PM for Trinity RCD – Trinity River Restoration / Grass Valley Creek, 1990-1994, 35 employees and \$2.5 million budget.
- **SWAG restored 2 miles of urban salmonid stream**, “day-lighted” tributary streams, restored and landform graded over 1 mile of abandoned State Highway 99. CRMP formation and implementation of \$1.2 million in restoration over 12 years.
- **NCHRP Report 544 – Environmentally Sensitive Channel and Bank Protection Methods Report 544 – Environmentally-Sensitive Channel and Bank Protection Methods**, 2005, Principle Investigator / Author
- Caltrans Researcher / SSP Designer for Caltrans Landscape Architecture **New Concepts of Sustainable Erosion Control**
- QSD/QSP,
- QSD Trainer of Record,
- Caltrans Researcher / Develop SSPs for **Advanced Sustainable Erosion Control (Steep Slopes)**
- CA State Parks, Off-Highway Motor Vehicle Recreation Division, “**OHV BMP Manual**”, 2010, Principle Author. Also helped develop OHMVRD SWMP, 2010 (OHV BMP Manual free download at <http://www.watchyourdirt.com/erosion-control-files/>)
- **ErosionDraw 5.0, BioDraw 3.0** - Developer of Best Management Practices (BMPs) design guidance, typical drawings, construction specifications etc.
- **Hands on BMP Training (11 years)- Caltrans Stormwater and Shasta College BMP Summits** <http://watchyourdirt.com/watchyourdirt-erosion-control/2016/1/19/erosion-bmp-training-facility-shasta-college-has-a-one-of-a.html>

## 1. Bioengineering Case Studies

John, with co-authors Wendi Goldsmith and Don Gray, recently published and new book.



W. Goldsmith, D. Gray, J. McCullah

### Bioengineering Case Studies

Sustainable Stream Bank and Slope Stabilization

- ▶ Presents a range of well-documented case studies on key techniques and best practices for bio-stabilization projects
- ▶ Emphasizes evaluation and comparison of different techniques and challenges across a wide range of project types and geographies
- ▶ Adopts a clear and consistent descriptive scheme and performance evaluation rubrics for 30 bio-stabilization projects, including efforts protecting/repairing watersheds, stabilizing slopes along highways, and protecting stream banks and coastal slopes
- ▶ Features four to five high-quality photographs for each project, totaling nearly 150 images

## 2. Produced and directed over 20 Dirt Time Videos on Proper BMP Utilization and Implementation

