



## Joint Workshop



**Stillwater Sciences - Physical Modeling Experiments to Guide River Restoration Projects  
National Center for Earth-surface Dynamics Stream Restoration Partners Group  
July 6-8, UC Berkeley Richmond Field Station, Richmond CA**

### Thursday July 6 – Day 1

- 8:00-9:00            Gathering, Breakfast  
*Transportation provided from Golden Bear Inn 0800*
- 9:00-9:30            Opening/Introductions (Leonard Sklar, Peter Downs)
- 9:30-10:30          Tour of Flume
- 10:30-12:00        Physical Experiments in River Restoration I
- Fine Sediment Infiltration into Gravel Beds (Yantao Cui)
  - 1-d and 2-d Gravel Augmentation (Jeremy Venditti)
  - 2-d Sediment Pulse Dynamics (John Wooster)
- 12:00-1:00          LUNCH
- 1:00-1:30            Physical Experiments in River Restoration II  
                         Channel-floodplain interactions (Glen Leverich)
- 1:30-2:00            StreamLab (Jeff Marr, Peter Wilcock)
- 2:00-3:00            Field Experiments in River Restoration I  
                         Introduction (Leonard Sklar)  
                         Coarse sediment augmentation - Umpqua River (Christian Braudrick)  
                         Simulating sediment passage around structures (Kris Vyverberg)
- 3:00-3:30            BREAK
- 3:30-5:00            Field Experiments in River Restoration II  
                         Combining numerical models, laboratory and field experiments  
                         (Yantao Cui)  
                         Re-scaling following gold dredging: Merced River (Peter Downs)  
                         Re-scaling following aggregate mining - Tuolumne River (Scott  
                         McBain)  
                         *(Final two presentations double as preview of field trip)*
- 5:30-7:00            COOKOUT @ RFS



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### Friday July 7 – Day 2 – Field Trip

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|-------------|---|
| 8:00        | Bus departs from Richmond Field Station<br><i>Transportation provided from Golden Bear Inn 0730</i>   |
| 8:00-9:00   | Travel to Tassajara Creek   |
| 9:00-10:00  | Suburban Restoration: Tassajara Creek compound channel and floodway<br>(Matt Kondolf, Mark Tompkins)  |
| 10:00-12:00 | Travel to Merced River  |
| 12:00-1:00  | LUNCH – Henderson Park, Snelling  |
| 1:00-3:00   | Restoring Salmon Habitat in the Central Valley I: gravel augmentation and restoration plans for the Merced River Dredger Tailings Reach (Peter Downs, Kevin Faulkenberry) |
| 3:00-3:45   | Travel to Tuolumne River  |
| 3:45-5:45   | Restoring Salmon Habitat in the Central Valley II: restoration after aggregate mining – Tuolumne River “7/11” site (Scott McBain)   |
| 5:45-6:00   | Travel to dinner location   |
| 6:00-7:30   | DINNER – Tuolumne River Regional Park – site of riparian restoration<br>(AJ Keith)  |
| 7:30-9:30   | Return travel to Berkeley/Richmond.   |



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### Saturday July 8 – Day 3

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|---------------|--|
| 8:00 – 8:30   | Gathering, Breakfast<br><i>Transportation provided from Golden Bear Inn 0800</i>   |
| 8:30 – 9:00   | Introduction, agenda (Peter Wilcock)   |
| 9:00 – 10:00  | Restoration for fish recovery<br>Monitoring the restoration of a constrained channel;<br>high flow design elements (Ed Herricks)<br>Discussion: ecohydraulic design and prediction   |
| 10:00 – 10:30 | BREAK  |
| 10:30 – 12:00 | Learning from doing: Monitoring and post-project assessment<br>USGS Reconfigured Channel Monitoring and Assessment Program<br>(RCMAP) (John Elliott)<br>Discussion: prospects for coordinated regional and national<br>post-project assessment; (Jack Schmidt)                             |
| Noon – 1:00   | LUNCH  |
| 1:00 – 2:00   | Public preference in the selection & location of projects for<br>water quality improvement (Nick Flores)<br>Discussion: willingness to pay & uncertainty in stream restoration   |
| 2:00 – 3:00   | Stream restoration tools: routing mixed-size sediment<br>NCED Tools (Gary Parker, Peter Wilcock)<br>Case studies; need for improved tools (Blair Greiman)  |
| 3:00 – 3:15   | BREAK  |
| 3:15 – 4:30   | Changing practice by changing stream restoration education and training<br>University programs including the new UMN/NCED graduate program<br>(Karen Gran)<br>Discussion: consistent training curricula and proposal for exam-based<br>certification in stream restoration (Peter Wilcock) |