

**CURRICULUM VITAE**  
**JEFFREY F. MOUNT**

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**EDUCATION**

1980, Ph.D (Earth Science) University of California, Santa Cruz  
1978, M.S. (Earth Science) University of California, Santa Cruz  
1976, BA (Geosciences) University of California, Santa Barbara

**PROFESSIONAL EXPERIENCE**

2015-present, Senior Fellow, Public Policy Institute of California  
2013-14, Partner, Saracino and Mount, LLC.  
1998-present: Founding Director and Director, University of California Davis Center for Watershed Sciences  
1996-2000, Chair, Department of Geology, University of California, Davis  
2014-present: Emeritus Professor of Earth and Planetary Sciences, University of California, Davis  
1993-2014: Professor, Department of Geology, University of California, Davis  
1986 -1993: Associate Professor, Department of Geology, University of California, Davis  
1987-1988: Visiting Scholar, Department of Earth Sciences and Resources, Flinders University, South Australia  
1980-1986: Assistant Professor, Department of Geology, University of California, Davis

**SELECTED RECENT PROFESSIONAL ACTIVITIES**

2003-2012, Member and Chair, California Bay-Delta Authority Independent Science Board, providing oversight of scientific activities in the San Francisco Bay-Delta  
2006-2008, Advisor to the Director of California Department of Water Resources on Flood Plain Management  
2005-2009, Science Advisor, Governor's Delta Vision Task Force  
2001-2005, Member, California State Reclamation Board, overseeing flood management and related ecosystem restoration in Central California  
2003-present, Associate Editor, San Francisco Estuary and Watershed Science Journal  
2001-2002, Member, US Army Corps of Engineers, Environmental Advisory Board advising Chief of USACOE on environmental policy  
2001-2004, Member, National Research Council Committee on Endangered and Threatened Fishes in the Klamath River Basin

2000-2010, Member, Oversight Committee for Packard Foundation-sponsored UC Merced Environmental Programs  
2000-2009, Member, California Department of Fish and Game Bear Creek Meadow Restoration Review Team  
2004-2009, Member, Pajaro River Flood Control Technical Advisory Team  
1998-present, more than 250 public presentations on water issues in California, including 2-5 keynote presentations/year.  
1998-present, more than 300 interviews to radio, TV, newspapers and documentaries on water management, flood control and river restoration issues.  
1998-present, more than 50 state legislative and gubernatorial briefings on water management, flood control and river management issues.  
1998-2012, with Peter Moyle and Jay Lund developed the UC Davis Center for Watershed Sciences, including fundraising and construction of facilities.

### **AWARDS AND HONORS**

2016: Award of Merit: California Water Policy Conference  
2001-2014: holder, UC Davis Roy Shlemon Chair in Applied Geosciences  
2003-2006: co-holder with Peter Moyle, UC Presidential Chair in Undergraduate Education  
2005 UC Davis Distinguished Public Service Award  
2006 Harriett Wieder Award for Leadership in Pursuit of Southern California's Water Future  
1996 Sierra Club Mother Load Chapter "Book of the Year" award

### **PEER-REVIEWED PUBLICATIONS**

Mount, J. B. Gray, C. Chappelle, J. Doolan, T. Grantham, and N. Seavy. 2016. [\*Managing water for the environment during drought: Lessons from Victoria, Australia.\*](#) Public Policy Institute of California.

Mount, J., E. Hanak, C. Chappelle, B. Colby, R. Frank, G. Gartrell, B. Gray, D. Kenney, J. Lund, P. Moyle, and L. Szeptycki. 2016. [\*Improving the federal response to western drought: Five areas for reform.\*](#) Public Policy Institute of California.

Hanak, E., J. Mount, C. Chappelle, J. Medellín-Azuara, P. Moyle, N. Seavy. 2015. [\*What if California's drought continues?\*](#) Public Policy Institute of California.

Mount, J., E. Hanak, C. Chappelle, B. Gray, P. Moyle, B. Thompson, J. Lund. 2015. [\*Policy priorities for managing drought.\*](#) Public Policy Institute of California.

Mount, JF., Fleenor, W., Herbold, B., Kimmerer, W. 2014. *The Draft Bay-Delta Conservation Plan: Assessment of Environmental Performance and Governance.* West-Northwest Journal of Environmental Law & Policy. V. 20, p. 245-374.

- Gray, B., B. Thompson, E. Hanak, J. Lund, J. Mount. 2013. [\*Integrated management of Delta stressors: Institutional and legal options\*](#). Public Policy Institute of California.
- Hanak, E., C. Phillips, J. Lund, J. Durand, J. Mount, and P. Moyle. 2013. [\*Scientist and stakeholder views on the Delta ecosystem\*](#). Public Policy Institute of California.
- Hanak, H., J. Lund, J. Durand, W. Fleenor, B. Gray, J. Medellin-Azuara, J. Mount, P. Moyle, C. Philips, B. Thompson. 2013. [\*Stress relief: Prescriptions for a healthier Delta ecosystem\*](#). Public Policy Institute of California.
- Null, S.E., Viers, J.H., Deas, M.L., Tanaka, S.K. and Mount, J.F., 2013. *Stream temperature sensitivity to climate warming in California's Sierra Nevada: impacts to coldwater habitat. Climatic Change, 116(1), pp.149-170.*
- Mount, J., W. Bennett, J. Durand, W. Fleenor, E. Hanak, J. Lund, and P. Moyle. 2012. [\*Aquatic ecosystem stressors in the Sacramento-San Joaquin Delta\*](#). Public Policy Institute of California.
- Yarnell, SM, Lind, AJ, Mount, JF. 2012. *Dynamic flow modeling of riverine amphibian habitat with application to regulated flow management*. River Research and Applications. V. 28, p. 177-191.
- Durand, J.R., Lusardi, R.A., Nover, D.M., Suddeth, R.J., Carmona-Catot, G., Connell-Buck, C.R., Gatzke, S.E., Katz, J.V., Mount, J.F., Moyle, P.B. and Viers, J.H., 2011. Environmental heterogeneity and community structure of the Kobuk River, Alaska, in response to climate change. *Ecosphere, 2(4)*, pp.1-19.
- Moyle, PB, W. Bennett, J. Durand, W. Fleenor, B. Gray, E. Hanak, J. Lund. And J. Mount. 2012. [\*Where the wild things aren't: Making the Delta a better place for native species\*](#). Public Policy Institute of California, San Francisco.
- Mehta VK, Rheinheimer DE, Yates D, Purkey DR, Viers JH, Young CA, Mount JF. Potential impacts on hydrology and hydropower production under climate warming of the Sierra Nevada. *Journal of Water and Climate Change*. 2011 Mar 1;2(1):29-43.
- Hanak, E., 2011. [\*Managing California's water: from conflict to reconciliation\*](#). Public Policy Institute of California.
- Lund, J., Hanak, E., Fleenor, W., Bennett, W. and Howitt, R., 2010. *Comparing futures for the Sacramento-San Joaquin delta* (Vol. 3). Univ of California Press.
- Yarnell, S.M., Viers, J.H. and Mount, J.F., 2010. Ecology and management of the spring snowmelt recession. *BioScience, 60(2)*, pp.114-127.

- Suddeth, R.J., Mount, J. and Lund, J.R., 2010. Levee decisions and sustainability for the Sacramento-San Joaquin Delta. *San Francisco Estuary and Watershed Science*, 8(2).
- Hanak, E., Lund, J., Dinar, A. and Gray, B., 2010. Myths of California water-implications and reality. *Hastings W.-Nw. J. Env't'l L. & Pol'y*, 16, p.3.
- Null, S., J. Viers, and J. Mount. 2010. Hydrologic response and watershed sensitivity to climate warming in California's Sierra Nevada. *PLoS ONE* 5(4)e9932.
- Hammersmark, C., S. Dobrowski, M. Rains, J. Mount, 2010, Simulated effects of stream restoration on the distribution of wet-meadow vegetation: *Restoration Ecology*, v. 18, p. 882-893.
- Opperman, J. G. Galloway, J. Fargione, J. Mount, B. Richter, S. Secchi. 2009. Land Use: Sustainable floodplains through large-scale reconnection to rivers. *Science*, v. 326, p. 1487-1488.
- Young C, Escobar M, Fernandes M, Joyce B, Kiparsky M, Mount J, Mehta V, Purkey D, Viers J, and Yades D. 2009. Modeling the hydrology of climate change in California's Sierra Nevada for subwatershed scale adaptation. *Journal of the American Water Resources Association*. V. 45, p. 1409-1423.
- Suchanek, T.H., Richerson, P.J., Zierenberg, R.A., Eagles-Smith, C.A., Slotton, D.G., Harner, E.J., Osleger, D.A., Anderson, D.W., Cech, J.J., Schladow, S.G. and Colwell, A.E., 2008. The legacy of mercury cycling from mining sources in an aquatic ecosystem: from ore to organism. *Ecological Applications*, 18(sp8).
- Galloway, G., and others, 2007, A California Challenge – Flooding in the Central Valley. Independent Review Panel Report to the California Department of Water Resources:  
<http://www.water.ca.gov/news/newsreleases/2008/101507challenge.pdf>
- Lund, J., Hanak, E. Fleenor, W. Bennett, W., Howitt, R. Mount, J., Moyle, P., 2008, [\*Comparing Futures for the Sacramento-San Joaquin Delta\*](#), Public Policy Institute of California.
- Florsheim, J.L. Mount, J.F., Hammersmark, C., Fleenor, W.E., Schladow S.G., 2008, Geomorphic Influence on Flood Hazards in a Lowland Fluvial-Tidal Transitional Area, Central Valley, California. *Natural Hazards Review*, v. 9, p. 116-124.
- Hammersmark, C., Rains, M, and Mount, J., 2008, Quantifying the Hydrological Effects of Stream Restoration in a Montane Meadow, Northern California, USA: *River Research and Applications*, V 24, p/735-753.

- Florsheim, J.L., Mount, J.F., and Chin, A. 2008, Ecological Significance of Channel Bank Erosion Processes. *BioScience*. V 58, p. 519-529.
- Moyle, P.B., and Mount, J.F., 2007, Homogenous rivers, homogenous faunas: Proceedings of the National Academy of Sciences, v. 104, p. 5711-5712.
- Lund, J., Hanak, E., Fleenor, W., Howitt, R., Mount, J., Moyle, P., 2007, [\*Envisioning Futures for the Sacramento-San Joaquin Delta\*](#). Public Policy Institute of California, San Francisco, CA., 324 pp.
- Ahearn, D, Viers, J, Mount, J.F., Dahlgren, R., 2006, Priming the productivity pump: flood pulse driven trends in suspended algal biomass across a restored floodplain: *Freshwater Biology*, v. 51, p. 11417-1433.
- Booth, E., Mount, J.F., and Viers, J., 2006, Hydrologic variability of the Cosumnes River Floodplain: *San Francisco Estuary and Watershed Science*, v. 4, issue 2, article 2.
- Yarnell, S., Mount, J.F., and Larsen, E., 2006, The influence of relative sediment supply on riverine habitat heterogeneity: *Geomorphology*, v. 80, p. 310-324.
- Florsheim, J.L., Mount, J.F., and Constantine, C.R., 2005, A geomorphic monitoring and adaptive assessment framework to assess the effect of lowland floodplain river restoration on channel-floodplain sediment continuity, *River Research and Applications*, v 21, p. 1-23.
- Mount, J.F., and Twiss, R.H., 2005, Subsidence, sea-level rise and seismicity in the Sacramento-San Joaquin Delta: *San Francisco Estuary and Watershed Science*, v. 3, issue 1, article 5.
- Rains, M.C., Mount, J.F., and Larsen, E.W., 2005, Simulated changes in shallow groundwater and vegetation distributions under different reservoir operations scenarios. *Ecological Applications*, v. 14, p. 192-207.
- Lewis, W. M., and others, 2004, Scientific Evaluation of Biological Opinions on Endangered and Threatened Fishes in the Klamath River Basin: National Academy Press, Washington, D.C. 397 pp.
- Weissmann, G. S., Zhang, Y., Fogg, G. E., and Mount, J. F., 2004, Influence of incised-valley fill deposits on the hydrogeology of a stream-dominated alluvial fan, *in* Bridge, J.S., and Hyndman, D.W., eds., *Aquifer Characterization: SEPM Special Publication 80*, p. 15-28.
- Moyle, P.B., P.K. Crain, K. Whitener, and J.F. Mount, 2003, Alien fishes in natural streams: fish distribution, assemblage structure, and conservation in the

- Cosumnes River, California, U.S.A.: *Environmental Biology of Fishes*, v. 68, p. 143-162.
- Fleckenstein, J., M. Anderson, G. Fogg, and J. Mount, 2003, Managing surface water-groundwater to restore fall flows in the Cosumnes River: *Journal of Water Resources Planning and Management*, v. 130, p. 301-310.
- Constantine, C. R., J. F. Mount, and J. L. Florsheim. 2003, The effects of longitudinal differences in gravel mobility on the downstream-fining pattern in the Cosumnes River, California. *Journal of Geology*.
- Florsheim, J. L. and J. F. Mount, 2002. Changes in lowland floodplain sedimentation processes: Pre-disturbance to post-rehabilitation, Cosumnes River, California. *Geomorphology*. Accepted 9-02.
- Rains, M. C. and J. F. Mount. 2002. Origin of shallow ground water in an alluvial aquifer as determined by isotopic and chemical procedures. *Ground Water*, 40(5):552-563.
- Mount, J. F., J. L. Florsheim, and W. B. Trowbridge. 2002. Restoration of dynamic floodplain topography and riparian vegetation establishment through engineered levee breaching. *The Structure, Function and Management Implications of Fluvial Sedimentary Systems*. IAHS Publication No. 276, pp. 85-91.
- Florsheim, J. L. and J. F. Mount. 2002. Restoration of floodplain topography by sand-splay complex formation in response to intentional levee breaches, lower Cosumnes River, California. *Geomorphology* 44(1-2):67-94.
- Weissmann, G. S., J. F. Mount, and G. E. Fogg. 2002. Glacially driven cycles in accumulation space and sequence stratigraphy of a stream-dominated alluvial fan, San Joaquin Valley, California, U.S.A. *Journal of Sedimentary Research* 72(2):240-251.
- Florsheim, J. L., J. F. Mount, and L. T. Rutten. 2002. Effect of baselevel change on floodplain and fan sediment storage and ephemeral tributary channel morphology, Navarro River, California. *Earth Surface Processes and Landforms* (26):219-232.
- Mount, J. F. Changing flood management to prevent future disasters. 1998. *Linkages* 4:1-5.
- Mount, J. F. and K. J. Bergk. 1998. Depositional sequence stratigraphy of Lower Cambrian Grand Cycles, Southern Great Basin, USA. *International Geology Review* 40:55-77.

- Mount, J. F. 1998, Levees harm more than help. *Engineering News Record* 240:59.
- Mount, J. F. 1995, *California rivers and streams: The conflict between fluvial process and land use*. University of California Press 359 p.
- Mount, J.F. and Kidder, D., 1993. Combined flow origin of edgewise intraclast conglomerates: Sellick Hill Formation (Lower Cambrian), South Australia. *Sedimentology*, 40(2), pp.315-329.
- Mount, J.F., 1993. Formation of fluidization pipes during liquefaction: examples from the Uratanna Formation (Lower Cambrian), South Australia. *Sedimentology*, 40(6), pp.1027-1037.
- Savarese, M., Mount, J.F., Sorauf, J.E. and Bucklin, L., 1993. Paleobiologic and paleoenvironmental context of coral-bearing Early Cambrian reefs: implications for Phanerozoic reef development. *Geology*, 21(10), pp.917-920.
- Mount, J.F. and McDonald, C., 1992. Influence of changes in climate, sea level, and depositional systems on the fossil record of the Neoproterozoic-Early Cambrian metazoan radiation, Australia. *Geology*, 20(11), pp.1031-1034.
- Mount, J.F. and Signor, P.W., 1992. Faunas and Facies—Fact and Artifact. In *Origin and early evolution of the Metazoa* (pp. 27-51). Springer US.
- Ward, P.D., Kennedy, W.J., MacLeod, K.G. and Mount, J.F., 1991. Ammonite and inoceramid bivalve extinction patterns in Cretaceous/Tertiary boundary sections of the Biscay region (southwestern France, northern Spain). *Geology*, 19(12), pp.1181-1184.
- Mount, J. F., D. L. Hunt, L. R. Greene, and J. Dienger. 1991. Depositional systems, biostratigraphy and sequence stratigraphy of Lower Cambrian Grand Cycles, Southwestern Great Basin: IN: Cooper, J. D., and C. H. Stevens, editors. *Paleozoic Paleogeography of the Western United States--II: Pacific Section SEPM* 67:209-229.
- Claeys, P.F. and Mount, J.F., 1991. Diagenetic origin of carbonate, sulfide and oxide inclusions in biotites of the Great Valley Group (Cretaceous), Sacramento Valley, California. *Journal of Sedimentary Research*, 61(5), pp.719-731.
- Christie-Blick, N., Levy, M., Mount, J.F., Signor, P.W. and Link, P.K., 1989. Stratigraphic and tectonic framework of upper Proterozoic and Cambrian rocks in the Western United States. *Late Proterozoic and Cambrian Tectonics, Sedimentation, and Record of Metazoan Radiation in the Western United States: Pocatello, Idaho, to Reno, Nevada 20-29 July, 1989*, pp.7-21.

- Mount, J. F. and P. W. Signor. 1989. Paleoenvironmental context of the Metazoan radiation event and its impact on the placement of the Precambrian-Cambrian boundary: Examples from the Southwestern Great Basin, U.S.A. IN: Christie-Blick, N. and M., Levy, editors, Late Proterozoic and Cambrian Tectonics, Sedimentation, and Record of Metazoan Radiation in the Western United States, 28th International Geological Congress Field Trip Guidebook T331, American Geophysical Union, p. 39-46.
- Signor, P. W. and J. F. Mount. 1989. Paleontology of the lower Cambrian Waucoban Series in eastern California and western Nevada. IN: Christie-Blick, N. and M. Levy, editors, Late Proterozoic and Cambrian Tectonics, Sedimentation, and Record of Metazoan Radiation in the Western United States, 28th International Geological Congress Field Trip Guidebook T331, American Geophysical Union, p. 47-53.
- Mount, J. F. and P. W. Signor. 1989. The Proterozoic-Cambrian transition of the White-Inyo Range, eastern California: Dawn of the Metazoa. White Mountain Research Station Symposium III, p. 455-488
- Mount, J.F., 1989. Re-evaluation of unconformities separating the "Ediacaran" and Cambrian systems, South Australia. *Palaios*, pp.366-373.
- Margolis, S.V., Mount, J.F., Doehne, E., Showers, W. and Ward, P., 1987. The Cretaceous/Tertiary boundary carbon and oxygen isotope stratigraphy, diagenesis, and paleoceanography at Zumaya, Spain. *Paleoceanography*, 2(4), pp.361-377.
- Signor, P.W., Mount, J.F. and Onken, B.R., 1987. A pre-trilobite shelly fauna from the White-Inyo region of eastern California and western Nevada. *Journal of Paleontology*, 61(03), pp.425-438.
- Signor, P.W. and Mount, J.F., 1986. Position of the Lower Cambrian boundary in the White-Inyo Mountains of California and in Esmeralda County, Nevada. *Newsletters on Stratigraphy*, pp.9-18.
- Mount, J. and Ward, P., 1986. Origin of limestone/marl alterations in the upper Maastrichtian of Zumaya, Spain. *Journal of Sedimentary Research*, 56(2), pp.228-236.
- Ward, P., Wiedmann, J. and Mount, J.F., 1986. Maastrichtian molluscan biostratigraphy and extinction patterns in a Cretaceous/Tertiary boundary section exposed at Zumaya, Spain. *Geology*, 14(11), pp.899-903.
- Butler, P.R. and Mount, J.F., 1986. Corroded cobbles in southern Death Valley: their relationship to honeycomb weathering and lake shorelines. *Earth Surface Processes and Landforms*, 11(4), pp.377-387.



- Mount, J.F., Margolis, S.V., Showers, W., Ward, P. and Doehne, E., 1986. Carbon and oxygen isotope stratigraphy of the Upper Maastrichtian, Zumaya, Spain: a record of oceanographic and biologic changes at the end of the Cretaceous Period. *Palaios*, pp.87-92.
- Gevirtzman, D.A. and Mount, J.F., 1986. Paleoenvironments of an earliest Cambrian (Tommotian) shelly fauna in the southwestern Great Basin, USA. *Journal of Sedimentary Research*, 56(3).
- Mount, J.F. and Signor, P.W., 1985. Early Cambrian innovation in shallow subtidal environments: Paleoenvironments of Early Cambrian shelly fossils. *Geology*, 13(10), pp.730-733.
- Mount, J.F., 1984. Mixing of siliciclastic and carbonate sediments in shallow shelf environments. *Geology*, 12(7), pp.432-435.
- Mount, J.F. and Cohen, A.S., 1984. Petrology and geochemistry of rhizoliths from Plio-Pleistocene fluvial and marginal lacustrine deposits, east Lake Turkana, Kenya. *Journal of Sedimentary Research*, 54(1).
- Signor, P.W., McMenamin, M.A., Gevirtzman, D.A. and Mount, J.F., 1983. Two new pre-trilobite faunas from western North America. *Nature*, 303(5916), pp.415-418.
- Mount, J.F., Gevirtzman, D.A. and Signor, P.W., 1983. Precambrian-Cambrian transition problem in western North America: Part I. Tommotian fauna in the southwestern Great Basin and its implications for the base of the Cambrian System. *Geology*, 11(4), pp.224-226.
- Mount, J.F., 1982. Storm-surge-ebb origin of hummocky cross-stratified units of the Andrews Mountain Member, Campito Formation (Lower Cambrian), White-Inyo Mountains, eastern California. *Journal of Sedimentary Research*, 52(3).
- Mount, J. F. and S. M. Rowland. 1981. Grand Cycle A (Lower Cambrian) of the Southern Great Basin: A product of differential rates of relative sea-level rise. IN: Taylor, M. E., editors, Short papers for the Second International Symposium on the Cambrian System. U.S. Geological Survey Open-File Report 81-743. p. 143-146.