BIOGRAPHICAL INFORMATION: ELLEN E. WOHL

PRESENT POSITION: Professor of Geology and University Distinguished Professor
Dept of Geosciences
Colorado State University
Ft. Collins, CO 80523

WEBSITES: https://sites.warnercnr.colostate.edu/ellenwohl/
https://sites.warnercnr.colostate.edu/fluvial-geomorphology/

DEGREES: Arizona State University, Tempe, Arizona
BS in Geology, 1984
University of Arizona, Tucson, Arizona
PhD in Geosciences, 1988

OTHER POSITIONS:

1989-1989 Faculty Research Associate, Dept of Geosciences, University of Arizona
1989-1995 Assistant Professor, Dept of Earth Resources, Colorado State University
1995-2000 Associate Professor, Dept of Earth Resources, Colorado State University

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

Geological Society of America (Fellow)
American Geophysical Union (Fellow)
British Society of Geomorphology (Fellow)

SCHOLARSHIPS, AWARDS, AND HONORS:

Graduation with honors from Arizona State University, magna cum laude
Sulzer Scholarship (University of Arizona), 1984-1985
Graduate Academic Scholarship (University of Arizona), 1984-1985, 1987-1988
SOCAL Fund Grant (University of Arizona), 1986-1987
Sigma Xi Grant-in-Aid-of-Research, 1986-1987
Geological Society of America Research Grant, 1986-1987
Fulbright-Hays Postgraduate Research Grant, 1986-1987
Butler Scholarship (University of Arizona), 1987-1988
Gladys W. Cole Memorial Award, Geological Society of America, 1995
Fellowship, Japan Society for the Promotion of Science, 1995-1996
Water Center Award for Outstanding Contributions to Interdisciplinary Water Education, Research, and Outreach (Colorado State University), 2001
G.K. Gilbert Award, Association of American Geographers, 2000 and 2003
Kirk Bryan Award, Geological Society of America, 2009
Distinguished International Fellow, Department of Geography, Durham University, England, 2010
Scholarship Impact Award, Colorado State University, 2015
Outstanding Mentor Award, College of Natural Resources, Colorado State University, 2015

Ralph Alger Bagnold Medal, European Geosciences Union, 2017
CSU University Distinguished Professor, 2017
Distinguished Career Award, GSA Quaternary Geology and Geomorphology Division, 2018
G.K. Gilbert Award, Earth and Planetary Surfaces Section, AGU, 2018
Doctor Honoris Causa, University of Lausanne, Switzerland, 2019
Borland Hydraulics Award, Colorado State University, 2020
Mel Marcus Distinguished Career Award, AAG, 2020
University of Arizona Geosciences, Distinguished Alumni Award, 2020
David Linton Award, British Society for Geomorphology, 2020
Hydrologic Sciences Award, Hydrologic Sciences Division, AGU, 2022
G.K. Warren Prize, National Academy of Sciences, 2024

Theses and dissertations supervised and completed: 60 MS theses, 34 PhD dissertations

EXTERNAL GRANTS:

73. Stream restoration monitoring (2024-2025) $40,000 from the Southern Plains Land Trust
72. The role of large wood in promoting channel-floodplain connectivity for river restoration (2023-2026)
    $420,876 from NSF Environmental Sustainability (co-PI Ryan Morrison, CSU)
71. Characterizing nature-based storage in the Colorado River watershed (2022-2023)
    $100,000 from the Walton Foundation
70. Floodplain carbon sequestration and spatial heterogeneity (2021-2023)
    $24,700 from Colorado Open Lands
69. Carbon sequestration potential in stream restoration (2021-22)
    $15,000 from Patagonia's RIVERS Team
68. Effect of valley geometry & large wood on sediment storage along Biscuit Brook (2017-2019)
    $102,336 from the New York City Department of Environmental Protection
67. Patterns of downstream sand movement on North and East Sand Creeks, CO (2019-20)
    $73,500 from the Diane Gates Foundation
66. Assessing the Stream Network on the Old Elk Ranch (2018-2019)
    $95,000 from the Richardson Foundation
65. Longitudinal Variability in Large Wood Along the Merced River, Yosemite National Park
    $70,000 from the US National Park Service (2018-2019)
64. Collaborative Research: Emergent Hydrological Properties Associated with Multiple Channel-Spanning Logjams (2018-2021)
    $265,984 from the National Science Foundation (co-PI Kamini Singha, CO School of Mines & Audrey Sawyer, Ohio State U)
63. Wood-based carbon discharge to the Arctic Ocean (2018-2020)
    $341,379 from the National Science Foundation
62. Assessing the potential for beaver restoration and likely environmental benefits (2017-2018)
    $19,880 from the City and County of Boulder, Colorado
61. Quantifying and predicting the attenuation of downstream fluxes associated with beaver meadows (2016-2018)
    $279,066 from the National Science Foundation (co-PI T. Covino, CSU)

60. Longitudinal patterns of organic carbon storage in mountainous river networks (2016-2019)
    $257,828 from the National Science Foundation
59. Collaborative Research: RAPID: Calibrating Shallow Geophysical Techniques to Detect Large Wood Buried in River Corridors (2016)
    $14,619 from the National Science Foundation (co-PI K. Sinha, CO School of Mines)
58. The 47th Annual Binghamton geomorphology Symposium (2016)
    $42,000 from the National Science Foundation (co-PIs S. Rathburn, CSU, F. Magilligan, Dartmouth)
57. Floodplain carbon storage in mountain rivers (2016-2017)
    $15,749 from the National Science Foundation (DDRI for Nicholas Sutfin)
56. Geophysical characterization of the Sand Creek site
    $27,000 from the National Park Service
55. The active channel and the ordinary high water mark (2015-2016)
    $27,834 from DOD-Army Corps of Engineers
54. Organic carbon storage in beaver meadows (2015-2016)
    $7,270 from the National Geographic Society
53. Floodplain-instream wood interactions in the Central Yukon River Basin (2014-2015)
    $15,810 from the National Geographic Society
52. Carbon fluxes to the Arctic Ocean via wood export from the Mackenzie River drainage basin (2012-2013)
    $9,575 from the National Geographic Society
51. Leaky Rivers: Nutrient Retention and Productivity in Rocky Mountain Streams Under Alternative Stable States (2012-2015)
    $633,745 from National Science Foundation (co-PI D. Walters, USGS)
51. Tropical Hydrology Workshop (2011)
    $13,070 from the US Army Research Office
50. Landscapes in the Anthropocene: Exploring the human connections (2010)
    $49,558 from National Science Foundation (co-PI A. Chin, University of Colorado)
49. Environmental flow strategy validation (2010-2012)
    $45,000 from USDA Forest Service
48. White River analysis (2009-2012)
    $75,000 from USDA Forest Service
47. Watershed to local scale characteristics and function of intermittent and ephemeral streams on military lands (2010-2014)
    $1,499,657 from U.S. Army Strategic Environmental Research and Development Program (co-PIs D.
    Cooper, S. Kampf, CSU)
46. RAPID: Pre-disturbance surveys of wood loads in headwater streams of the Colorado Front Range (2009-2010)
    $30,435 from National Science Foundation
45. SGER: Influence of postglacial rebound on river longitudinal profiles in Sweden (2007-2009)
    $35,000 from National Science Foundation
44. Development of a national protocol for riparian assessment (2007-2009)
    $117,500 from USDA Forest Service
43. Wood loading in headwater neotropical forest streams (2007-2010)

$283,030 from National Science Foundation

42. Measurements of roughness coefficient for steep channels (2007-2009)
$257,204 from National Science Foundation

41. Mapping longitudinal distribution of wood along forest streams (2005-2006)
$21,071 from USDA Forest Service

40. Testing the existence of a threshold discharge in bedrock channels (2005-2008)
$203,617 from National Science Foundation

39. Develop service-wide concepts for riparian habitat and stream restoration (2004-2007)
$303,692 from National Park Service (co-PI D. Cooper, CSU)

38. Assessing snow-making impacts to stream channels (2004-2006)
$75,004 from USDA Forest Service (co-PI B. Bledsoe, CSU)

37. Geomorphic effects of a jokulhlaup (2004-2005)
$61,474 from National Science Foundation

36. Rivers, roads, and people: Complex interactions of overlapping networks in watersheds (2003-2007) $1,700,000 from National Science Foundation (co-PIs, J. Loomis, J. Ramirez, M. Laituri, CSU)

35. International Collaboration: Flow hydraulics along step-pool channels (2003-2004)
$6804 from National Science Foundation

34. Assessment of historical and contemporary land-use impacts on pool habitat in the Upper South Platte River drainage basin (2003-2006)
$73,212 from USDA Forest Service

33. Anabranching channels in jointed bedrock: an integrated flume and field study (2003-2005)
$124,781 from National Science Foundation (co-PI G. Springer, Ohio University)

32. Flow hydraulics along step-pool channels (2003-2004)
$8,000 from National Science Foundation

31. Gradient-related trends in mountain channel geometry (2003)
$11,300 from National Science Foundation

30. Quantifying historical and contemporary coarse sediment input and storage and fine sediment storage along Black Canyon (2002-2003)
$50,012 from US National Park Service

29. Hierarchical physical classification of western streams (2000-2004)
$788,144 from EPA (co-PIs B. Bledsoe, L. Poff, C. Watson, CSU)

28. Wetland, Aquatic and Riparian Protocols (2000-2005)
$142,550 from USDA Forest Service (co-PIs D. Cooper and L. Poff, CSU)

27. North Fork Gunnison River Improvement Project (2000-2001)
$50,000 from the North Fork River Improvement Association (co-PI D. Cooper, CSU)

26. Quantitative modeling of channelized flow within a karst stream (2000-2002)
$102,185 from National Science Foundation

25. Hydraulic resistance of large woody debris in step pool channels (2000-2001)
$2175 from the National Science Foundation (REU supplement)

24. Characterizing channel disturbance regimes in hydroclimatically extreme regions (2000-2003)
$162,639 from the US Army Research Office

23. Chemical weathering in granitic channels of India and the United States (1999-2001)
$12,192 from the National Science Foundation

22. Hydraulic resistance of large woody debris in step pool channels (1999-2001)

$78,200 from the National Science Foundation

21. Acquisition of hydraulics instrumentation for field-based research (1999-2004)
$54,068 from the National Science Foundation

20. Instrumentation for disturbance regimes of hydrologically extreme regions (1999-2000)
$122,562 from US Army Research Office

19. Modeling flows for fish habitat maintenance (1998-2000)
$45,000 from the Colorado Division of Wildlife

18. Inventory of current and historic erosion-control projects in the Rio Puerco basin and quantification of sediment yields (1998-2000)
$45,150 from the US Bureau of Land Management

17. Mitigation of mountain-channel sedimentation resulting from reservoir sediment releases (1998- 2000)
$72,670 from the National Science Foundation

16. Channel response to reservoir sedimentation (1997-1998)
$25,000 from Colorado Water Conservation Board, Trout Unlimited, and U.S. Bureau of Reclamation

15. Flow resistance of large woody debris in headwater streams (1997-1999)
$70,400 from NCASI (Ntnl Council of the Paper Industry for Air and Stream Improvement)

14. Lithologic controls on bedrock channel morphology (1995-1996)
$35,000 from the Japan Society for the Promotion of Science

13. Flood hazards associated with glacier-lakes in the eastern Himalaya Mountains (1994-1997)
$82,756 from the National Science Foundation

12. Energy expenditure in deep, narrow bedrock canyons (1994)
$7000 from the Geological Society of America

11. Integrative riparian ecosystem modeling along the Yampa River, Colorado (1994-1996)
$39,777 from The Nature Conservancy's Ecosystem Research Program

10. Integration of palynological and geomorphological analyses to determine paleoenvironmental conditions at the Hudson-Meng site (1993)
$11,925 from the USDA Forest Service (co-investigator E. Kelly, CSU)

9. Reconstruction of past river discharge in central Russia (1992)
$3400 from the National Research Council and the National Academy of Science

8. Regional flood hazard analysis (1991-1993)
$299,930 from the National Science Foundation (co-investigator J. Salas, CSU)

7. Validation of water yield thresholds on the Kootenai National Forest (1992-1994)
$110,745 from the USDA Forest Service (co-investigator L. MacDonald, CSU)

6. Paleoflood records in the southern Negev Desert (1991-1992)
$7200 from the US-Israel Educational Foundation

5. An evaluation of flooding in the vicinity of Harpers Ferry, West Virginia (1991-1992)
$40,000 from the USDI National Park Service

4. Controls on subalpine channel morphology (1991-1992)
$20,000 from the USDA Forest Service

3. Fluvial terraces: A tool for integrating geomorphic processes, climatic and tectonic events, and landscape development (1990-1992)
$102,608 from the National Science Foundation (co-investigator D. Merritts, F&M

College)
2. Holocene paleofloods of northern Australia (1989-1991)
$24,050 from the National Geographic Society (co-investigator V. Baker, U. Az.)
1. Paleoflood history of Redfield Canyon, Arizona (1989)
$5711 from the Arizona Department of Water Resources

BIBLIOGRAPHY:
Refereed Publications

323. **Wohl** E, Larkin K, Triantafillou S. 2026. Hydrogeomorphology of headwater streams. Earth-Science Reviews 281, 105586.
322. **Wohl** E, Triantafillou S, Thornton-Dunwoody A, Mertz C, Larkin K, Keenan W, Griffin S, Davis D, Blehm L. 2026. Strategies for assessing post-wildfire resilience in semiarid rivers. River Research and Applications 42, 1115-1141.
321. Zhang X, Sawyer AH, Singha K, **Wohl** E. 2026. Exploring the influence of morphologic heterogeneity and discharge on downstream transport in streams with multiple logjams: 2. Insight from numerical models. Water Resources Research 62, e2026WR043462.
320. Hahn A, Morrison RR, Triantafillou S, **Wohl** E. 2026. Predicting head loss and hydraulic roughness in channel-spanning large wood jams. Geophysical Research Letters 53, e2026GL122411.
319. Tian S, Li D, Zhang T, McClelland JW, Overeem I, Lane SN, Spencer RGM, **Wohl** E, Sha A, Zhao Y, Miao C, Ning M, Yuan L, Ni J. 2026. Increasing river sediment concentration and flux across the pan-Arctic. Nature Geoscience 19, 565-572.
318. Rengers FK, Stocker JM, Kostelnik J, Kean JW, **Wohl** EE, Barnhart KR, Guido LE. 2026. Channel morphology and large wood control postfire debris-flow erosion and deposition. Earth Surface Processes and Landforms 51, e70287.
317. Scott D, **Wohl** E. 2026. Wood equilibrium: a conceptual framework for assessing the wood regime. Geomorphica 2, 1-21.
316. Soares de Cortes JP, Farias Andrade JM, da Silva Less DF, de Fraga R, Marshall A, **Wohl** E. 2026. Multidimensional drought impacts in the lower Amazon: local perspectives on social-ecological vulnerability. Regional Environmental Change 26, 83.
315. Larkin K, **Wohl** E. 2026. Assessing potential controls on river bead functionality in mountain streams. Geomorphology 503, 110297.
314. Richardson O, **Wohl** E. 2026. Geomorphic responses to post-grazing recovery and stream restoration in semiarid grassland streams. River Research and Applications 42, 1083-1098.
313. Uno H, Negishi J, Morita K, Kishida O, **Wohl** E. 2026. Large wood supports hydrologically variable floodplain environments and aquatic biodiversity. Ecosphere 17, e70700.
312. Triantafillou S, **Wohl** E. 2026. Evaluating the sensitivity of process domains for logjams to spatial and temporal sample size in river networks of the Southern Rockies, USA. Journal of Geophysical Research: Earth Surface 131, e2025JF008491.
311. Uno H, Nakagawa H, Ishiyama N, Sakai M, Mori T, Terui A., Scholl EA, **Wohl** E, Baxter CV. 2026. Bridging ecology and geosciences in riverscapes: implications for process-based restoration. Ecological Research 41, e70028.

310. Dickson J, **Wohl** E, Govers LL, Franken O, Bouma TJ, Olff H, Eriksson BK, Watson MS, Borges LMS, van der Heide T. 2026. A review of the historic and present ecological role of aquatic and shoreline wood, from forest to deep sea. Biological Reviews 101, 1091-1119.
309. Katz A, **Wohl** E, Bestgen K, Haworth M. 2026. Fine sediment depositional patterns and fish habitat following wildfire and debris flow. River Research and Applications 42, 149-161.
308. Demuth, B, Parrinello G, **Wohl** E. 2025. Rivers are messy: beyond the water bias in research and management. PLOS Water 4, e0000447.
307. Dodds WK, Barmuta LA, Bernal S, Corman J, Harms TK, Johnson SL, Li L, Cunha DGF, Olden JD, Riis T, Silva LCR, Stella JC, Sullivan P, **Wohl** E. 2025. Defining stream riparian zones across multidimensional environmental gradients. Journal of Environmental Quality 54, 1674-1697.
306. **Wohl** E, Clark M, Li L, Soulsby C, Tetzlaff D. 2025. Knots in the strings: Do small-scale river features shape catchment-scale fluxes? WIREs Water 12, e70036.
305. Rajib A, Lane CR, Morrison RR, Haider MR, Zheng Q, Golden HE, **Wohl** E, Di Baldassare G, Christensen JR. 2025. Barriers to quantifying human alterations of global floodplains and how we can overcome them. Cell Reports Sustainability 2, 100433.
304. Huang SH, Sawyer AH, **Wohl** E, Yang QJ. 2025. Flume experiments with refractive-index matched sediment revealing the impact of two in-line channel-spanning logs on hyporheic exchange. Water Resources Research 61, e2024WR038355.
303. **Wohl** E, Scamardo J, Morrison RR. 2025. James Buttle Review: Bed, Banks and Beyond: River Flood Dynamics. Hydrological Processes 39, e70131.
302. Hahn A, Christensen ND, White DC, **Wohl** E, Morrison RR. 2025. Trajectories of river-floodplain morphology and hydraulics following compounding wildfire-flood disturbances. Earth Surface Processes and Landforms 50, e70057.
301. Dwiveli D, **Wohl** E, Poeppl R. 2025. A review of hydrologic connectivity: synthesizing current approaches in measurement, modeling, and management and transitioning to novel strategies. Frontiers in Water 7, 1496199.
300. **Wohl** E, Inamdar S. 2025. Beaver vs human: The big differences in small dams. WIREs Water 12, e70019.
299. **Wohl** E. 2025. Conceptualizing river floodplains. Earth's Future 13, e2024EF005681.
298. Zheng H, Tetzlaff D, Birkel C, Chmieleski J, Comte JC, Freymueller J, Goldhammer T, Schmidt A, **Wohl** E, Soulsby C. 2025. Hydrological connectivity and biogeochemical dynamics in the function and management of the Lower Oder floodplain. Journal of Hydrology 653, 132708.
297. Gambill I, Marshall A, Benson DA, McFadden S, Navarre-Sitchler A, **Wohl** E, Singha K. 2025. Exploring the influence of morphologic heterogeneity and discharge on transient storage in stream systems. 1. Insights from the field. Water Resources Research 61, e2023WR036031.
296. Mason RJ, Johnson MF, **Wohl** E, Russell CE, Olden JD, Polvi LE, Rice SP, Hemsworth MJ, Sponseller RA, Thorne CR. 2025. Rebalancing river lateral connectivity: An interdisciplinary focus for research and management. WIREs Water 12: e1766.
295. **Wohl** E. 2024. Nature-based river restoration amidst constraints: Balancing water ecosystems and consumptive water uses on a western USA river. Ecological Restoration

42, 290-292.

294. Triantafillou S, **Wohl** E. 2024. Geomorphic characteristics influencing post-fire river response in mountain streams. Geomorphology 466: 109446.
293. Stegen J, Burgin A, Busch M, Fisher J, Ladau J, Abrahamson J, Kinsman-Costello L, Li L, Chen X, Datry T, McDowell N, Tatariw C, Braswell A, …, **Wohl** E, Zimmer M. 2025. Variable inundation across Earth's terrestrial ecosystems. Biogeosciences 22, 995-1034.
292. Ockelford A, **Wohl** E, Ruiz-Villanueva V, Comiti F, Piegay H, Darby S, Parsons D, Yochum SE, Wolstenholme J, White D, et al. 2024. Working with wood in rivers in the western United States. River Research and Applications 40: 1626-1641.
291. **Wohl** E, Fryirs K, Grabowski RC, Morrison RR, Sear D. 2024. Enhancing the natural absorbing capacity of rivers to restore their resilience. BioScience 74: 782-796.
290. Marshall AE, **Wohl** E. 2024. Islands in the stream: wood-induced deposition and erosion in the river corridor. Earth Surface Processes and Landforms 49: 4310-4323.
289. Dunn SB, Rathburn SL, **Wohl** E. 2024. Post-fire sediment attenuation in beaver ponds, Rocky Mountains, CO and WY, USA. Earth Surface Processes and Landforms 49: 4340-4354.
288. Follett E, **Wohl** E. 2024. Channel-spanning logjams and reach-scale hydraulic resistance in mountain streams. Geophysical Research Letters 51: e2024GL110126.
287. Buscombe D, Warrick JA, Ritchie A, East A, McHenry M, McCoy R, Foxgrover A, **Wohl** E. 2024. Remote sensing large-wood storage downstream of reservoirs during and after dam removal: Elwha River, Washington, USA. Earth and Space Science 11: e2024EA003544.
286. **Wohl** E. 2024. Resilience in river corridors: how much do we need? Perspectives of Earth and Space Scientists 5, e2023CN000226.
285. **Wohl** E. 2024. Ecosystem benefits of large dead wood in freshwater environments. In, Oxford Research Encyclopedia of Environmental Science. https://doi.org/10.1093/acrefore/9780199389414.013.907
284. Humphries P, **Wohl** E, Agostinho AA, Kopf RK, McCasker N, Moyle, P, Thorp J. 2024. Flood ecology. BioScience 74, 355-368.
283. Marshall A, **Wohl** E, Iskin E, Zeller L. 2024. Interactions of logjams, channel dynamics, and geomorphic heterogeneity within a river corridor. Water Resources Research 60, e2023WR036512.
282. Kemper JT, Knox R, Raffae M, Schulz E, Bailey R, Morrison RR, **Wohl** E. 2024. Estimating catchment-scale sediment storage in a large river basin, Colorado River, USA. River Research and Applications 40, 1379-1392.
281. **Wohl** E, Marshall AE, Triantafillou S, Mobley M, Means-Brous M, Morrison RR. 2024. Distribution of logjams in relation to lateral connectivity in the river corridor. Geomorphology 451: 109100.
280. **Wohl** E, S Rathburn, S Dunn, E Iskin, A Katz, A Marshall, M Means-Brous, J Scamardo, S Triantafillou, H Uno. 2024. Geomorphic context in process-based river restoration. River Research and Applications 40: 322-340.
279. Marshall A, RR Morrison, B Jones, S Triantafillou, E **Wohl**. 2024. Handheld lidar as a tool for characterizing wood-rich river corridors. River Research and Applications 40: 353-364.
278. Iskin E, E **Wohl**. 2023. Interpreting floodplain heterogeneity: using field data to

understand unsupervised floodplain classifications. Journal of Hydrology 628: 130508.

277. Scamardo J, E **Wohl**. 2024. Recognizing the ephemeral stream floodplain: Identification and importance of flood zones in drylands. Earth Surface Processes and Landforms 49: 210-235.
276. Iskin E, E **Wohl**. 2023. Beyond the case study: Characterizing natural floodplain heterogeneity in the United States. Water Resources Research 59: e2023WR035612.
275. Scamardo J, M Nichols, T Rittenour, E **Wohl**. 2023. Drivers of geomorphic heterogeneity in unconfined non-perennial river corridors. Journal of Geophysical Research Earth Surface 128: e2023JF007102.
274. Wymore AS, AS Ward, E **Wohl**, J Harvey. 2023. Viewing river corridors through the lens of critical zone science. Frontiers in Water 5: 1147561.
273. Hinshaw S, E **Wohl**. 2023. Carbon sequestration potential of process-based river restoration. River Research and Applications 39: 1812-1827.
272. Kemper JT, Rathburn SL, Mueller ER, **Wohl** E, Scamardo J. 2023. Geomorphic response of low-gradient, meandering and braided alluvial river channels to increased sediment supply. Earth-Science Reviews 241: 104429.
271. Marshall A, E **Wohl**. 2023. The continuum of wood-induced channel bifurcations. Frontiers in Water 5: 1155623.
270. Marshall A, X Zhang, AH Sawyer, E **Wohl**, K Singha. 2023. Logjam characteristics as drivers of transient storage in headwater streams. Water Resources Research 59: e2022WR033139.
269. Scott DN, S Shahverdian, R Flitcroft, E **Wohl**. 2022. Geomorphic heterogeneity as a framework for assessing river corridor processes and characteristics. River Research and Applications 38: 1893-1901.
268. **Wohl** E, H Uno, SB Dunn, JT Kemper, A Marshall, M Means-Brous, JE Scamardo, SP Triantafillou. 2024. Why wood should move in rivers. River Research and Applications 40: 976-987.
267. Iskin EP, E **Wohl**. 2023. Quantifying floodplain heterogeneity with field observation, remote sensing, and landscape ecology: methods and metrics. River Research and Applications 39: 911-929.
266. Sendrowski A, E **Wohl**, R Hilton, N Kramer, P Ascough. 2023. Wood-based carbon storage in the Mackenzie River Delta: The world's largest mapped riverine wood deposit. Geophysical Research Letters 50: e2022GL100913.
265. **Wohl** E, JE Scamardo. 2022. Aufeis as a major forcing mechanism for channel avulsion and implications of warming climate. Geophysical Research Letters 49: e2022GL100246.
264. Scamardo J, PA Nelson, M Nichols, E **Wohl**. 2022. Modeling the relative morphodynamic influence of vegetation and large wood in a dryland ephemeral stream, Arizona, USA. Geomorphology 417: 108444.
263. **Wohl** E, Knox RL. 2022. A first-order approximation of floodplain soil organic carbon stocks in a river network: the South Platte River, Colorado, USA as a case study. Science of the Total Environment 852: 158507.
262. Norman LM, R Lal, E **Wohl**, E Fairfax, AC Gellis, MM Pollock. 2022. Natural infrastructure in dryland streams (NIDS) can establish regenerative wetland sinks that reverse desertification and strengthen climate resilience. Science of the Total Environment 849: 157738.

261. Scott D, S Shahverdian, R Flitcroft, E **Wohl**. 2022. Geomorphic heterogeneity as a framework for assessing river corridor processes and characteristics. River Research and Applications 38: 1893-1901.
260. White DC, RR Morrison, E **Wohl**. 2022. Fire and ice: winter flooding in a Southern Rocky Mountain stream after a wildfire. Geomorphology 413: 108370.
259. Knox RL, EE **Wohl**, RR Morrison. 2022. Levees don't protect, they disconnect: a critical review of how artificial levees impact floodplain functions. Science of the Total Environment 837: 155773.
258. Knox RL, RR Morrison, EE **Wohl**. 2022. A river ran through it: floodplains as America's newest relict landform. Science Advances 8: eabo1082.
257. **Wohl** E, E Iskin. 2022. The transience of channel-spanning logjams in mountain streams. Water Resources Research 58: e2021WR031556.
256. Knox RL, RR Morrison, EE **Wohl**. 2022. Identification of artificial levees in the contiguous United States. Water Resources Research: e2021WR031308.
255. Hinshaw S, E **Wohl**, JD Burnett, S Wondzell. 2022. Development of a geomorphic monitoring strategy for stage 0 restoration in the South Fork McKenzie River, Oregon, USA. Earth Surface Processes and Landforms 47: 1937-1951. https://onlinelibrary.wiley.com/doi/full/10.1002/esp.5356
254. **Wohl** E, J Scamardo. 2022. Patterns of organic matter accumulation in dryland river corridors of the southwestern United States. Science of the Total Environment 833: 155136.
253. **Wohl** E. 2022. Logjam fluctuations during the decade after a major blowdown along a mountain stream in the US Southern Rockies. Earth Surface Processes and Landforms 47: 669-705.
252. **Wohl** E, AE Marshall, J Scamardo, D White, RR Morrison. 2022. Biogeomorphic influences on river corridor resilience to wildfire disturbances in a mountain stream of the Southern Rockies, USA. Science of the Total Environment 820: 153321.
251. Scamardo J, S Marshall, E **Wohl**. 2022. Estimating widespread beaver dam loss: habitat decline and surface storage loss at a regional scale. Ecosphere 13: e3962.
250. **Wohl** E, E Iskin. 2021. Damming the wood falls. Science Advances 7:eabj0988.
249. Hinshaw S, E **Wohl**. 2021. Quantitatively estimating carbon sequestration potential in soil and large wood in the context of river restoration. Frontiers in Earth Science 9: 708895.
248. Livers B, E **Wohl**. 2021. All logjams are not created equal. Journal of Geophysical Research: Earth Surface 126: e2021JF006076.
247. **Wohl** E, J Castro, B Cluer, D Merritts, P Powers, B Staab, C Thorne. 2021. Rediscovering, reevaluating, and restoring lost river-wetland corridors. Frontiers in Earth Science: Hydrosphere: 9, 653623. doi: 10.3389/feart.2021.653623
246. Sendrowski A, E **Wohl**. 2021. Remote sensing of large wood in high resolution satellite imagery: design of an automated classification workflow for multiple wood deposit types. Earth Surface Processes and Landforms 46: 2333-2348.
245. **Wohl** E. 2021. Conceptualizing rivers as ecosystems. Earth Surface Processes and Landforms 46: 1652-1654.
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Associate Editor, *Water Resources Research*, 2001-2011
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Editorial board of *Earth Surface Processes & Landforms*, 2008-2009; Associate Editor, 2010-25
Associate Editor, *Journal of Hydrology*, 2010-2013
Editor, *Water Resources Research*, 2018-present
Associate Editor, *Science Advances*, 2021-present

Editor-in-Chief, Oxford Bibliography of Environmental Science, 2013-present, http://www.oxfordbibliographies.com/obo/page/environmental-science
Editor, fluvial volume in the 1st (2013) & 2nd (2022) editions of the Treatise on Geomorphology
Officer, Quaternary Geology & Geomorphology Division, Geological Society of America, 2001-2005 (Chair, 2003-2004)
Member, Ordinary High Water Mark National Technical Committee, 2014-present
Member, Erosion & Sedimentation Committee, Am. Geophys. Union, 2001-2008
Member, Earth and Planetary Surface Process Focus Group, Am. Geophys. Union, 2009-present
Geol. Soc. Am. Committee on Committees, 1996
Geol. Soc. Am. Joint Technical Program Committee, 2004
GSA Quaternary Geology & Geomorphology Division Nominating Committee, 1996
GSA Quaternary Geol. & Geomorph. Division Panel Member, 1996-1998
GSA Quaternary Geol. & Geomorph. Division Abstracts Reviewer, 1993
GSA Quaternary Geol. & Geomorph. Awards Committee, 1990-91, 1996-98, 2001-02
GSA Session Chair, annual meetings in 1993, 1996, 1997, 2002, 2007
Am. Geophys. Union Session Chair, Hydrology Days, 1992-1994, 1997-1998
AGU Student Presentation Judge, 1998, 2001, 2003, 2007
Member, Colorado Natural Hazards Mitigation Council, 1991-present
Trustee, Rocky Mountain Hydraulic Research Center, 1992-present
Panel member, NSF Hydrologic Sciences Program, 1999-2003
Am. Soc. Civil Engineers Paleoflood Hydrology Committee, 1999
Panel member, NSF Geomorphology and Land-Use Dynamics Program, 2005-2007
Panel member, NSF Geography and Spatial Sciences Doctoral Dissertation Improvement Grant Program, 2016-2017
Member, National Technical Committee on the Ordinary High Water Mark (Army Corps of Engineers and US EPA), 2014-2025

Invited Lectures, Review Panels, Advisory Boards

Invited lectures
US universities
Baylor University
Boise State University
Central Washington University
College of Idaho
Colorado College
Duke University
Idaho State University
Iowa State University
Lehigh University
Miami University
Ohio State University
Ohio Wesleyan University
Oregon State University
Pennsylvania State University

Portland State University
San Francisco State University
Skidmore College
St. Louis University
Texas A&M University
University of Arizona
University of California, Berkeley
University of California, Davis
University of California, Santa Barbara
University of Colorado, Boulder
University of Colorado, CO. Springs
University of Denver
University of Illinois
University of Iowa
University of Minnesota
University of New Mexico
University of North Carolina, Charlotte
University of Oklahoma
University of Pittsburgh
University of South Carolina
University of Vermont
University of Washington
University of Wyoming

Universities outside the United States
Aberystwyth University (Wales)
Chuo University (Japan)
Durham University (England)
ETH Zurich (Switzerland)
Geological Society of India
GFZ Potsdam (Germany)
Griffith University (Australia)
Hebrew University (Israel)
Hokkaido University (Japan)
IGB Leibniz Institute of Freshwater Ecology & Inland Fisheries (Germany)
Loughborough University (England)
McMaster University (Canada)
Mid-Sweden University
Newcastle University (England)
Pontificia Universidad Católica de Chile
Queen Mary University of London (England)
Tartu University (Estonia)
Umeå University (Sweden)
Universidad Complutense Madrid (Spain)
University of Cambridge (England)

Universidad de Leon (Spain)
University of Edinburgh (Scotland)
University of Glasgow (Scotland)
University of Hull (England)
University of Lausanne (Switzerland)
University of Nottingham (England)
University of Padova (Italy)
University of Salzburg (Austria)
University of Southampton (England)
University of Tokyo (Japan)
University of Tsukuba (Japan)
University of Western Ontario (Canada)
Universidad de los Andes (Colombia)
University of Melbourne (Australia)
University of Wollongong (Australia)
Wageningen University (The Netherlands)

Invited keynote speaker at Binghamton Geomorphology Symposium (1994, 2006, 2012, 2019); North American Benthological Society (2000); American Water Resources Association conference (2004); Colorado Riparian Association conference (2004); Second International Symposium on Riverine Landscapes, Sweden (2004); Gravel-Bed Rivers VI Workshop, Austria (2005); 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics, China (2011); 4th Interagency Conference on Research in the Watersheds (2011); Mid-Atlantic Stream Restoration Conference (2011); MTNCLIM (Consortium for Integrated Climate Research in Western Mountains, 2012); River Restoration Northwest Conference (2012); American Society of Environmental Historians (2013); Southwest Stream Restoration Conference (2014); Wood in World Rivers III (2015); 8th Australian Stream Management Conference (2016); Catskills Environmental Research and Monitoring Conference (2016); RiverFlow (2016); Rocky Mountain Stream Restoration Conference (2016); Sustaining Colorado Watersheds Conference (2016); European Geosciences Union (2017); Society for Freshwater Science (2018); Natural Channels Conference (2018); River Restoration Northwest (2019); Upper Columbia River Science Conference (2020), NOAA Northwest Fisheries Science (2021), World's Large Rivers (2021); Association of American Geographers (2022); American Fisheries Society Conference (2023), Brazilian Geomorphology Symposium (2023), International Conference on Fluvial Sedimentology (2023), British Society of Geomorphology (2023), Scientific Advances in River Restoration, UK (2023), Ecology and Civil Engineering Society Conference, Japan (2023); BeaverCon (2024), Catchment Science Symposium (2024); American Ecological Engineering Society (2025), Sustaining Colorado Watersheds (2025)

Review panels for Upper Colorado River Endangered Fish Recovery Program (1995); San Juan River Recovery Program (1997-2005); Chair, Physical Sciences Review Panel for Grand Canyon Monitoring and Research Center (1998-2000); CALFED Battle Creek Restoration Plan (2003-2004); Building with Nature (The Netherlands, 2013); US Environmental Protection Agency Science Advisory Board Panel for the review of the EPA Water Body Connectivity Report (2013); The New Delta (The Netherlands, 2014)

External MS/PhD examiner for Macquarie University, Australia (2001, 2015); Umea University, Sweden (2004); University of Trento, Italy (2007); Southern Cross University, Australia (2010); University of Auckland, New Zealand (2014); University of Melbourne, Australia (2014); University of the West Indies, Jamaica (2014); University of Newcastle, Australia (2016); University of Wollongong, Australia (2016); ETH Zurich (2018); University of British Columbia, Canada (2019); University of New England, Australia (2019); Wageningen University, The Netherlands (2019); University of Vienna, Austria (2020); Deakin University, Australia (2021); University of Natural Resources and Life Sciences (BOKU), Austria (2022); National University of Singapore (2023); University of Melbourne, Australia (2024); University of New England, Australia (2024); Tezpur University, India (2024); GFZ Potsdam, Germany (2025); Wageningen University, The Netherlands (2025)

Advisory board for The Nature Conservancy's Colorado Scientific Advisory Network (1997-present), Grand Canyon Monitoring and Research Center Science Advisors Board (2006-2020), Columbia River Basin (2022-2025)

International visitors hosted at Colorado State University

Takashi Oguchi, University of Tokyo, Japan (2001)
Yuichi Hayakawa, University of Tokyo, Japan (2005)
Francesco Comiti, University of Padova, Italy (2007)
Mario Jiménez, Universidad Nacional de Colombia, Colombia (2010)
Jonathan Ryan, University of Nottingham, England (2011)
Jose Ortega, Universidad Autónoma de Madrid, Spain (2012, 2015)
Michaela Wörndl, University of Innsbruck, Austria (2014)
Margherita Righini, University of Padova, Italy (2015)
William Amponsah, University of Padova, Italy (2015)
Fernando Ugalde, Pontificia Universidad Catolica de Chile, Chile (2015)
Lina Polvi Sjöberg, Umeå University, Sweden (2015)
Alfonso Pisabarro, University of Valladolid, Spain (2016)
Tania Santos, Universidad de los Andes, Colombia (2017-18)
Yuko Asano, University of Tokyo, Japan (2018-19)
Hiromi Uno, Hokkaido University, Japan (2022-23)

Primary advisor for the following graduate students (completion date)

MS (63)

1.Kathy Adenlof (1992)
2.Susan Fuertsch (1992)
3.Mario Mejia-Navarro (1992)
4.Michael Grimm (1993)
5.Marsha Hilmes (1993)
6.Clifford Blizard (1994)
7.Lauren Hammack (1994)
8.Michael Martin (1994)

PhD (34)

1.Mario Mejia-Navarro (1995)
2.Nancy Hoefs (1996)*
3.Brian Cluer (1997)
4.Mette Jordan (1997)
5.Douglas Thompson (1997)
6.Edmund Wick (1998)
7.Dan Cenderelli (1998)
8.David Merritt (1999)

9.Rebecca Smith (1994)
10.Douglas Thompson (1994)
11.Michael Liquori (1995)
12.Susan Madsen (1995)
13.Jill Minter (1996)
14.Jonathan Pruess (1996)
15.Carolyn Trayler (1997)
16.Janet Curran (1999)
17.Jasper Hardison (2000)
18.Stephanie Phippen (2000)
19.William MacFarlane (2001)
20.Gregory Stewart (2001)
21.Ronald Zelt (2002)
22.Chris Jaquette (2003)
23.Tracy Phelps (2003)
24.Kurt Sable (2004)
25.Ian Dubinski (2005)
26.Jaime Goode (2005)
27.Francis Rengers (2005)
28.Dan Cadol (2007)
29.Gabrielle David (2007)
30.Amy Nowakowski (2007)
31.Paul Dante (2009)
32.Lina Polvi (2009)
33.Zan Rubin (2010)
34.Jameson Henkle (2010)
35.Elizabeth Gilliam (2011)
36.Natalie Kramer (2011)
37.Tyanna Schlom (2012)
38.Nicholas Sutfin (2012)
39.Jonathan Garber (2013)
40.Simeon Caskey (2013)
41. Bridget Livers (2013)
42. Heidi Klingel (2013)
43. Karen Jackson (2014)
44. DeAnna Laurel (2014)
45. Dena Hicks (2015)
46. Dan Scott (2015)
47. Elizabeth Oswald (2015)
48. Krista Garrett (2016)
49. Andrew Pfeiffer (2017)
50. Julianne Scamardo (2019)
51. Ethan Ader (2019)
52. Sarah Hinshaw (2019)
53. Zachary Kornse (2020)

9.Sara Rathburn (2001)
10.Gregory Springer (2002)
11.Allen Gellis (2003)
12.Andrew Wilcox (2005)
13.Nancy Brown (2006)
14.Ian Dubinski (2009)
15.Jaime Goode (2009)
16.Kristin Jaeger (2009)
17.Dan Cadol (2010)
18.Gabrielle David (2011)
19.Lina Polvi (2011)
20.Natalie Beckman (2012)
21.Susan Howe (2013)
22.Dai Thomas (2014)
23.Umit Duru (2015)
24.Nick Sutfin (2015)
25.Natalie Kramer Anderson (2016)
26.Bridget Livers (2016)
27.Katherine Lininger (2018)
28.Dan Scott (2018)
29.DeAnna Laurel (2019)
30. Richard Knox (2022)
31. Sarah Hinshaw (2022)
32. Emily Iskin (2023)
33. Julianne Scamardo (2023)
34. Anna Marshall (2024)

54. Julia Grabowski (2020)
55. Emily Iskin (2020)
56. Anna Marshall (2021)
57. Mickey Means-Brous (2023)*
58. Shayla Triantafillou (2024)
59. Aaron Katz (2024)
60. Katherine Larkin (2025)
61. Owen Richardson (2026)
62. Lindsey Blehm (2026)
63. Dylan Davis (2026)