

BRIAN P. BLEDSOE, PH.D., P.E.

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BIOSKETCH

Brian Bledsoe is Georgia Athletic Association Distinguished Professor in Resilient Infrastructure in the College of Engineering at the University of Georgia. Brian has over 30 years of experience as a civil and environmental engineer, hydrologist, and environmental scientist in the private and public sectors. He holds degrees from Georgia Tech, North Carolina State University, and Colorado State University. Before entering the professorate, he worked as a consulting engineer and surveyor, and for the State of North Carolina as a watershed restoration engineer. Brian's research is focused on the interface of engineering, hydrology, and ecology with an emphasis on infrastructure, stormwater and flood management, water quality, and restoration of river and wetland ecosystems. He received a National Science Foundation CAREER Award in 2006, served as a Fulbright Scholar in Chile in 2008, was elected a Fellow of the American Society of Civil Engineers in 2017, and is past president of the American Ecological Engineering Society. Brian's advisory activities include the Everglades and Louisiana Coastal Area restoration efforts, the Platte River and San Juan River Recovery Implementation Programs, Engineers Without Borders, and collaborative water resources planning and management with numerous municipal, industrial, and agricultural partners.

RESEARCH AREAS

- hydrology, hydraulics, and fluvial geomorphology
- water-centered planning for sustainability and resilience
- ecological engineering and ecosystem restoration
- infrastructure and extreme events
- urban streams, stormwater, and floodplains
- highways in river environments
- water quality / quantity interactions and environmental flows

EDUCATION

- Ph.D. Colorado State University, Fort Collins, CO, 1999**
Civil Engineering – Hydraulics and River Mechanics
- M.S. North Carolina State University, Raleigh, NC, 1993**
Forestry – Hydrology and Restoration Ecology
- B.M.E. Georgia Institute of Technology, Atlanta, GA, 1987**
Mechanical Engineering – Fluids and Thermal Systems

REGISTRATION

Professional Civil Engineer: Colorado (#40411), North Carolina (#21050)

HONORS

- 2017, Named the Georgia Engineer of the Year in Education by the Georgia Society of Professional Engineers
- 2017, Elected Fellow by the American Society of Civil Engineers
- 2017, Elected President of the American Ecological Engineering Society
- 2017, Certificate recognizing contributions by a faculty member who has had a significant, positive impact on students' career development, UGA Career Center.
- 2016, Elected Vice-President of the American Ecological Engineering Society
- 2016, Named UGA Athletic Association Professor in Resilient Infrastructure, College of Engineering, UGA
- 2015, Invited as O. T. Hayward Distinguished Speaker, Baylor University, Waco, TX. Two invited presentations on urban streams and fluvial geomorphology presented April 8-9.
- 2014, Invited keynote address entitled "Resilient and Rambunctious Floodplains" at the 25th Annual Colorado Association of Stormwater and Floodplain Managers (CASFM) Conference, Vail, CO, October 1.
- 2014, Invited keynote entitled "Addressing Key Uncertainties in Stream Restoration Projects" at EcoStream 2014 – Stream Ecology and Restoration Conference, NCSU, Charlotte, NC, November 17-20
- 2013, Invited keynote address to River Restoration Northwest Annual Symposium, Stevenson, WA
- 2013, Faculty Award for Excellence in Teaching, Department of Civil and Environmental Engineering, CSU, Fort Collins, CO
- 2011, Outstanding Faculty Performance Award, Department of Civil and Environmental Engineering, CSU, Fort Collins, CO
- 2009, Outstanding Mid-Career Faculty Member, College of Engineering, CSU, Fort Collins, CO
- 2008, Fulbright Scholar in Chile, Department of State – Fulbright Commission. Fulbright Scholar grant at the Centro EULA de Chile, Universidad de Concepción in Chile
- 2007, Outstanding Faculty Performance Award, Department of Civil and Environmental Engineering, CSU, Fort Collins, CO
- 2007, International Service Award, College of Engineering, CSU, Fort Collins, CO
- 2006, Selected as the Borland Chair of Hydraulics, Department of Civil and Environmental Engineering, CSU, Fort Collins, CO
- 2006, NSF CAREER Award: Stream Restoration, Ecological Engineering, and Nutrient Retention of Streams in Urban and Agricultural Settings, NSF, Washington, DC.
- 2006, Exceptional Achievement in Service and Experiential Learning Award, Engineers Without Borders, College of Engineering, CSU, Fort Collins, CO
- 2003, Outstanding Faculty Performance Award, CSU, Fort Collins, CO

ACADEMIC POSITIONS

2016-present Director, Institute for Resilient Infrastructure Systems, College of Engineering, University of Georgia (UGA)

2016-present	Professor with tenure, UGA Athletic Association Distinguished Professor in Resilient Infrastructure, College of Engineering, UGA
2013-2015	Professor with tenure, Civil and Environmental Engineering, Colorado State University (CSU)
2007-2013	Associate Professor with tenure, Civil and Environmental Engineering, CSU
2000-2007	Assistant Professor (tenure-track starting 2002), Civil and Environmental Engineering, CSU
1999-2001	Research Associate, Civil Engineering, CSU
1997-1998	Research Assistant, Civil Engineering, CSU
1991-1993	Graduate Research and Teaching Assistant, Forestry, North Carolina State University
1990	Environmental Engineering Research Technician, Environmental Sciences and Engineering, School of Public Health, University of North Carolina–Chapel Hill

COURSES DEVELOPED AND TAUGHT

- Natural Infrastructure Engineering and Design
- Natural Resources Engineering
- Engineering Systems and Decision Analysis
- Ecological Engineering
- Environmental River Mechanics
- Nonpoint Source Pollution
- Stream Restoration Design

OTHER POSITIONS

Nonpoint Source Program Coordinator – Environmental Engineer II / North Carolina Department of Environment and Natural Resources, Division of Water Quality / Raleigh, NC / January 1996 – August 1997

- Supervised the Nonpoint Source Planning Group in developing and implementing numerous water quality restoration and protection initiatives including Nutrient Sensitive Waters management plans, basin-wide management plans, wetland / stream restoration plans, geographic information system (GIS) based nonpoint source (NPS) modeling, and integrated management of point and diffuse pollution.
- Lead engineer in the development and implementation of best management practices and ecosystem rehabilitation measures designed to improve water quality in NPS impaired waters.
- Presented frequent written and oral reports on water quality issues and the scientific basis of program initiatives to the North Carolina Legislature, Governor's staff, North Carolina Department of Environment and Natural Resources (NCDENR) administration, local governments, and to various agricultural, development, and environmental stakeholders.
- Negotiated with other agencies and interest groups to arrive at engineering and policy decisions which established and prioritized NPS control strategies to protect water quality throughout North Carolina.

- Prepared federal NPS grant applications and administered contractual agreements exceeding \$2M under §319 of the Clean Water Act.

Environmental Specialist / North Carolina Department of Environment and Natural Resources, Division of Coastal Management / Raleigh, NC / March 1994 – January 1996

- Lead engineer for NCDENR in providing technical guidance to Federal Highway Administration (FHWA) and North Carolina Department of Transportation (NCDOT) in impact avoidance, long-term mitigation planning, and development of mitigation plans and specifications for transportation projects involving impacts to streams and wetlands.
- Developed technical foundation and state / federal agency support for a state-wide stream and wetland restoration program which led to enabling legislation and a \$9M appropriation from the North Carolina General Assembly.
- Project leader responsible for a regional watershed analysis project involving development and implementation of a GIS combined with hydrologic modeling for targeting watershed rehabilitation strategies to address water quality problems.
- Supervised GIS technicians and field crews in performing GIS analyses, global positioning system (GPS) location surveys, mapping, site assessment, and prioritization of candidate sites for watershed rehabilitation measures.

Graduate Research and Teaching Assistant / North Carolina State University / Department of Forestry Raleigh, NC / January 1991 – July 1993

- Supervised and conducted research on the hydrology, hydraulics, water quality, and ecology of streams and wetlands to determine design criteria for ecosystem restoration projects.
- Developed functional design, performed hydrologic and ecological modeling, and assisted in the construction management of a project to restore and create riverine wetland systems.
- Entirely responsible for teaching an undergraduate course on computer applications in natural resources management.

Environmental Engineering Research Technician / University of North Carolina - Chapel Hill Department of Environmental Sciences and Engineering / January 1990 – December 1990

- Supported air quality research program by performing photochemical pollution experiments, data analysis, maintenance and repair of instrumentation, and structural / electrical renovation of lab.
- Designed and built a computerized data acquisition system for use in air quality research.

Survey Crew Chief / Diamondback Land Surveys / Las Cruces, NM / March 1989 – September 1989

- Supervised survey crews and operated total stations, theodolites, levels, and other survey equipment in the performance of construction and boundary surveys.

Project Engineer / J.P. Bledsoe Company / Dalton, GA / September 1987 – March 1989

- Performed engineering design and construction layout for land development, highway, and bridge projects. Supervised survey crews and operated total stations, theodolites, and levels.

Engineering Intern / Dalton Utilities / Dalton, GA / June 1983 – September 1983

- Performed diverse tasks at municipal water treatment plants including sample collection, assisting plant operators, and plant maintenance.

RESEARCH PROJECTS

Current Research Projects

Design Hydrology for Stream Restoration and Channel Stability at Stream Crossings, PI, National Cooperative Highway Research Program

Hydraulic Effects of Temporary Bridge Construction Activities, PI, Georgia Department of Transportation (GDOT),

Developing a Framework to Integrate Landscape Architecture Design and Planning Concepts into Engineering with Nature (EWN) Approaches to Levee-Based Flood Management, PI, US Army Corps of Engineers

Georgia Land Use Trends (GLUT), PI, Georgia Environmental Protection Division

Phase 2: Enhancement and Restoration Interventions for Bird-Long Island Shoreline Alternatives: Design and Modeling for Stewardship, Co-PI, Georgia Department of Transportation (GDOT)

Review of Special Provisions and Other Conditions Placed on GDOT Projects for Imperiled Aquatic Species Protection, Co-PI, Georgia Department of Transportation (GDOT)

Southeast Partnership for Advanced Renewables from Carinata, Co-PI, U.S. Department of Agriculture, UGA portion is \$2.0M [Bledsoe's share is \$263K]

Hidden Infrastructure: Onsite Wastewater Disposal and Sea-level Rise, Co-PI, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) Climate Program Office, \$294,507

Urban Water Innovation Network (U-WIN): Transitioning Toward Sustainable Urban Water Systems, Co-PI, National Science Foundation – Sustainability Research Network, \$12M

Urban Water Innovation Network (U-WIN): Transitioning toward Sustainable Urban Water Systems: Project B2-2b Hydrology and hydraulics of urban floodplains, PI, National Science Foundation, \$203,226 [this project is part of the U-WIN project listed above]

Past Research Projects

Evaluation of and Recommendations for Functional Assessment of Stream Restoration for Water Quality Benefits in Urban Watersheds, PI, Water Research Foundation

Review of Special Provisions and Other Conditions Placed on GDOT Projects for Imperiled Aquatic Species Protection (Scoping Phase), Co-PI, Georgia Department of Transportation (GDOT), \$82,248

Center for System-Level Optimal Strategies for Nutrient Management (CLEAN), Co-PI, U.S. Environmental Protection Agency, \$2,291,486

Fluvial Instability and Riparian Degradation: Evaluating and Reducing Nutrient Loading from Channel-Riparian Interfaces, PI, U.S. Environmental Protection Agency, \$208,508 [this project is part of the CLEAN Center project listed above]

GRAPE: Modeling of Water Availability in the Southern Company Footprint, PI, Southern Company Services, \$100,000

Community-enabled Lifecycle Analysis of Stormwater Infrastructure Costs (CLASIC) – Review of Objective 4 Decision Support Tools by Colorado State University, PI, U.S.

Environmental Protection Agency, \$9,502

Technical Support for Development of Numeric Flow Criteria to Support Freshwater Bio-objectives, Hydromodification Management, and Nutrient Numeric Endpoints – SCCWRP, PI, Southern California Coastal Water Research Project, \$477,867

Design Hydrology for Stream Restoration and Channel Stability at Stream Crossings, PI, National Cooperative Highway Research Program, Transportation Research Board, \$350,000

Identification of Outstanding Resource and Impaired Waters in the National Park System, Co-PI, Department of the Interior – National Park Service, \$179,280

Support of the 2017 17th Annual Meeting of the American Ecological Engineering Society Meeting, PI, Oak Ridge Associated Universities, \$4,000

Stream Restoration: A Crucial New BMP Database Module, Co-PI, Water Environment Research Foundation, \$150,000

Upper Arkansas River Stream Rehabilitation Habitat Comparison and Vegetation Monitoring, PI, Colorado Parks and Wildlife, \$121,170

Answering Ecological Management Questions for Coastal National Parks Using GIS Tools, PI, Department of the Interior – National Park Service, \$93,837

River Change and Flood Hazards on the Colorado Front Range, PI, Colorado Water Conservation Board, \$49,853

Channel Degradation and Phosphorus in Stream Bank Soil Samples, PI, Urban Drainage and Flood Control District, \$30,000

Stream Power and Geomorphic Change during the 2013 Front Range Floods, PI, US Forest Service, \$29,087

Fixing the Leaks: Uniting Epidemiologists and Environmental Engineers to Investigate and Improve Water Infrastructure and Human Health during Extreme Rainfall and Floods, Co-PI, Colorado Water Institute, \$25,000

Flow, Sediment Transport and Nutrient Flux Monitoring using Seismic and Infrasound Signals, Co-PI, Colorado Water Institute, \$23,794

2D vs. 3D Whitewater Park Analysis, PI, Colorado Parks and Wildlife, \$29,859

Bed Material and Flushing Analysis for the Colorado River in Eagle County, Colorado, PI, Eagle River Watershed Council, \$8,800

Development of Tools for Hydromodification Assessment and Management, PI, Southern California Coastal Water Research Project, \$449,100

Stream Restoration, Ecological Engineering, and Nutrient Retention of Streams in Urban and Agricultural Settings, PI, National Science Foundation CAREER Award, \$450,000

Altered Channel Morphology as a Result of Urbanization and Other Land Uses in Watersheds, PI, U.S. Environmental Protection Agency, \$186,000

An Ecohydrological Approach to Managing Intermittent and Ephemeral Streams on Department of Defense Lands, PI, U. S. Department of Defense and University of Arizona, \$413,111

Hierarchical Physical Classification of Western Streams: Predicting Biological Condition in Terms of Key Environmental Processes Bridging Local to Ecoregional Scales, PI, U.S. Environmental Protection Agency, \$788,144

Linking Watershed Characteristics with Flow Regime and Geomorphic Context to Diagnose Water Quality Impairment at Multiple Spatial and Temporal Scales, Co-PI, U.S. Environmental Protection Agency, \$897,798

Predicting Relative Risk of Establishment and Persistence of Riparian and Aquatic Invasive Species in River Networks, Co-PI, U. S. Environmental Protection Agency, \$599,748

Protocols for Studying Wet Weather Impact Urbanization, Co-PI, Water Environment Research Foundation, \$299,994

Fate and Transport of Metals and Sediment in Surface Water, Co-PI, U.S. Environmental Protection Agency, \$201,026

Evaluation of Enhanced Stream Bank Stabilization for Controlling Nutrient Loads in Watersheds, Co-PI, U. S. Department of Agriculture, \$337,036

Utilizing Bank Stabilization Structures for Controlling Nitrate and Phosphate Contamination of Ground Water and Surface Water Sources, Co-PI, Colorado Agricultural Experiment Station. \$19,800

Demonstration Erosion Control Monitoring, Co-PI, U. S. Army Corps of Engineers, Waterways Experiment Station, \$304,840

Field Characterizations of the Hydraulics of Steep Channels, Co-PI, National Science Foundation, \$195,251

Little Snake River Monitoring, PI, Three Forks Ranch Corporation, \$165,000

Effects of Wet Weather Discharges on the Physical Character of Aquatic Habitat, Co-PI, Water Environment Research Foundation, \$123,322

Inventory and Assessment of the Colorado River Corridor in Eagle County, Colorado, PI, Eagle River Watershed Council, \$112,700

National Riparian Protocol Development, PI, U. S. Department of Agriculture and U. S. Forest Service, \$145,000

Assessing Snow-Making Impacts to Stream Channels, Co-PI, U.S. Department of Agriculture, Forest Service, \$77,504

Stream Geomorphic Assessments and Prioritization of Stream Restoration Projects, PI, City of Fort Collins, \$64,409

Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado: Year 3, PI, Colorado Water Conservation Board, \$71,000

National Riparian Protocol Geomorphic Valley Classification Tool Upgrade and NFS Valley Map Product Development, Co-PI, U.S. Department of Agriculture – U.S. Forest Service – Forest Research, \$24,500

National Riparian Protocol Geomorphic Valley Classification Tool Upgrade and Production of Valley Classification Map Data Product for the Western US, Co-PI, U.S. Department of Agriculture – U.S. Forest Service – Forest Research, \$24,500

Biocomplexity – Modeling Urban Aquatic Ecology / Hydrologic / Geomorphologic Relationships on Urbanizing Streams in the West, Co-PI, National Science Foundation, \$99,633

Flushing Flow Quantification – Fraser River, CO, PI, Colorado Trout Unlimited, \$39,341

Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado: Year 1, PI, Colorado Division of Parks and Wildlife, \$49,800

Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado: Year 2, PI, Colorado Water Conservation Board, \$46,000

Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado: Year 3, PI, Colorado Water Conservation Board, \$43,796

Upper Arkansas River NRD – Reddy SWA/Crystal Lakes STL Project Design Collaboration and Quality Assurance Review, PI, Colorado Department of Natural Resources, \$44,376

Developing Flow Recommendations for Turquoise Reservoir and Establishing Riparian Monitoring Points for the Upper Arkansas River, Co-PI, Colorado Division of Wildlife, \$42,023

Eagle River Inventory and Assessment, PI, Eagle River Watershed Council, \$48,877

Upper Arkansas River NRD – Hayden Meadows Project Design Quality Assurance Review, PI, Colorado Department of Natural Resources, \$39,214
GeoTools for Rapid Dynamic Channel Analysis and Biological Assessment, PI, U.S. Department of the Interior, Bureau of Reclamation, \$35,021
Geomorphic Assessment of Fisheries Enhancement Features on the Big Sandy River, Wyoming, PI, U.S. Department of the Interior, Bureau of Reclamation, \$19,297
Cache la Poudre River Post-Fire Sediment and Aquatic Insect Monitoring, Co-PI, Colorado Division of Parks and Wildlife and City of Fort Collins, \$16,000
Mapping Geomorphic Settings in the Colorado River Basin for Environmental Flow Analysis, PI, CDM Smith, \$12,117
Review of Water Management Scenarios for the North Fork Poudre River, Co-PI, The Nature Conservancy, \$10,000
2014CO301B Investigation of the Effects of White Water Kayak Parks on Aquatic Resources in Colorado, PI, Department of the Interior, U.S. Geological Survey, \$5,000.
Vision Paper: River Restoration, Co-PI, Consortium of Universities for the Advancement of the Hydrologic Sciences, Inc., \$4,820
Campbell Valley Monitoring and Restoration Recommendations, PI, Wildlands Restoration Volunteers, \$2,503

SERVICE AND PROFESSIONAL ACTIVITIES

Academic Activities

- Director of the UGA Institute for Resilient Infrastructure Systems
- UGA University Service: Member of UGA River Basin Center Executive Committee (2016-2017); Member of the Wormsloe Science Advisory Council for the Center for Research + Education at Wormsloe (CREW) (2017); Invited by Provost to serve on the University Review Committee (URC) for promotion and tenure (2017)
- UGA College of Engineering Service (CENGR): Instruction, Administration, and Research; Tenure Review (2016-2017); Chair of GAA Professor Selection Committee (2016); Promotion and Tenure Committee (2017)
- UGA School of Environmental, Civil, Agricultural and Mechanical Engineering (ECAM): Search Committee Chair for the Founding Chair of the School of ECAM; (2016-2017); Bledsoe Lab active collaboration across the School of ECAM and UGA academic units; participation in the Strategic Planning process
- CSU Department of Civil and Environmental Engineering Service: Code Committee (2010-2014); Promotion Committee (2013-2014); Chair of Accreditation Committee (2014); Tenure Committee (2010); Chair of Tenure Committee (2011-2012); Water Faculty Search Committee (2011-2012); Chair of Water Faculty Search Committee (2014); Instructor Search Committee (2014); Borland Endowment Committee (2010); Search Committee (2013)
- Member of more than 160 M.S. and Ph.D. committees since 2000
- Co-Director, Program of Research and Scholarly Excellence (PRSE) – Water Science for Environmental Sustainability, CSU (2012-2015)
- Advising Faculty Member in interdisciplinary graduate degree programs at CSU:
 - Graduate Degree Program in Ecology (GDPE):
 - Executive Committee (2011-2015)

- Advising Faculty Member (2007-2015)
 - Integrated Water, Atmosphere, Ecosystems, Education and Research (I-WATER) funded by the National Science Foundation Integrative Graduate Education and Research Traineeship (I-GERT) program:
 - Advising Faculty Member (2012-2016)
- Fulbright Committee, Office of International Programs, CSU
- School of Global Environmental Sustainability Curriculum Committee, CSU
- Co-founder and Faculty Advisor of Engineers Without Borders CSU Chapter (2004-2009)

Professional Memberships and Review Service

- Fellow of the American Society of Civil Engineers
- Member of the American Geophysical Union
- Member of the American Water Resources Association
- Member of the American Society for Engineering Education
- Member of the American Ecological Engineering Society
- Reviewer of refereed journal submissions for: *Earth-Science Reviews*, *Ecological Engineering*, *Water Resources Research*, *J. Hydraulic Engineering*, *J. Hydrologic Engineering*, *J. American Water Resources Association*, *J. Water Resources Planning and Management*, *Freshwater Biology*, *J. North American Benthological Society*, *J. Environmental Quality*, *J. Hydrology*, *Hydrological Sciences J.*, *Geomorphology*, and John Wiley & Sons
- Reviewer of proposal submissions for: National Science Foundation

Selected Professional Service

- Invited Plenary Panelist, presented “Changing Climate Conditions in the Chattahoochee River” at the Chattahoochee Riverkeeper Climate Change Conference: “A Resilient Future for All,” Atlanta, GA, September 27-28, 2017.
- For the Symposium on Urbanization and Stream Ecology, SUSE4: “Making Urban Stream Rehabilitation a Co-evolutionary Process,” Haw River State Park Summit Conference Center, Browns Summit, NC, May 31-June 3, 2017:
 - Organizing Committee Member for SUSE symposium
 - Session Co-Chair for “Restoration Case Studies”
 - Session Co-Facilitator for “Prioritization of Subwatersheds for Restoration and Protection”
- For the 17th Annual Meeting, American Ecological Engineering Society (AEES): “Ecological Engineering for Adaption in the Anthropocene,” UGA, Athens, GA, May 22-25, 2017:
 - Hosted AEES Annual Meeting
 - Session Moderator for “Urban Planning and Resilience”
- Hosted 2017 Research Retreat for collaborating members of the NSF-funded Urban Water Innovation Network (UWIN) project (Hydraulics and Hydrology of Urban Floodplains), UGA, Athens, GA, Dates?
- Invited Expert Panelist on “Large-scale Restoration Research Opportunity,” Little St. Simons Island, Saint Simons Island, GA, 29-30 October 2016
- Invited Member of Science Advisory Committee of the San Juan River Basin Recovery Implementation Program (SJRRIP)
 - Invited (by the U. S. Fish and Wildlife Service) participant for the Long-range Plan of SJRRIP (2012)
- Invited Member of Science Advisory Committee of the Platte River Recovery Implementation Program (PRRIP)
- Invited Panelist during the CSU Global Water Research Colloquium “From Conflict to Sustainability: Challenges and Opportunities in an Interdependent World” sponsored by the CSU Vice President for Research, the Office for International Programs, and the CSU Water Center (2012)
- Invited Member of Scientific Advisory Board on Suspended and Bedded Sediments for the U.S. Environmental Protection Agency – Office of Water

- Invited Panelist for Peer-Review of the Environmental Monitoring and Assessment Program (EMAP) Research Strategy for the U.S. Environmental Protection Agency – Office of Research and Development
- Invited Panelist for Peer-Review of Development of National Aquatic Ecosystem Classifications and Reference Conditions – 2001 Science to Achieve Results (STAR) Program – U.S. Environmental Protection Agency
- Invited expert Panelist on the future of the Cache la Poudre River for the City of Fort Collins, CO, Draft Environmental Impact Statement (DEIS) for the Northern Integrated Supply Project (NISP) (2007-2008).

Volunteer Service

- Volunteer Mentor for Students as Leaders in Engineering and the Women and Minorities in Engineering Program at Colorado State University
- Volunteer Project Mentor for Senior Design Groups in Civil Engineering
- Volunteer for the Colorado Alliance of Minority Participation
- Volunteer for the Native American Student Services Summer Youth Experience
- Volunteer Scientist for The Nature Conservancy and Eagle River Watershed Council
- Volunteer Scientist for the Wildland Restoration Volunteers, a non-profit organization that provides an opportunity for people to come together, learn about their natural environment, and take direct action to restore and care for the land (2012-present)
- Volunteer Scientist for the City of Fort Collins (with entire storm-water management team) to discuss long-term vision for stream restoration in the City (2012)
- Volunteer Scientist for the future of the “Poudre River – A Poudre Runs Through It” program (to professionals, politicians, and interested stakeholders) organized by the Water Center.

GRADUATE STUDENT ADVISING

Committee Chair / Advisor:

Ph.D.

Stephen Adams (in progress, GRA)
Daniel Baker (completed, GRA)
Daniel Buhr (in progress, GRA)
Christopher Cuhacian (completed, GRA)
David Dust (completed)
Robert Hawley (completed, GRA)
Holly Yaryan Hall (in progress, GRA)
Roderick Lammers (completed, NSF IGERT Program, GRA)
Jennifer Mueller Price (completed, GRA)
Joel Sholtes (completed, NSF IGERT Program, GRA)
Tim Stephens (in progress, GRA)
Steven Yochum (completed, GRA)

M.S.

Stephen Adams (completed, GRA)
Russ Anderson (completed, GRA)
Amer Battikhi (completed)
Michael Brown (completed, GRA)
Andrew Bryden (completed)
Tanner Buggs (in progress, GRA)
Daniel Buhr (completed)
Shaun Carney (completed, GRA)
Erick Carlson (completed GDPE, GRA)
Paul Coughlin (in progress, GRA)
Sarah Eberhart (completed, GRA)
Andrea Fasen (completed)
Devan Fitzpatrick (in progress, GRA)
Alejandro Flores (completed, GRA)
Brian Fox (completed, GRA)
Kyle Hardie (completed, GRA)
Elaina Holburn (completed, GRA)
Blair Hurst (completed, GRA)
Nell Kolden (completed, GRA)
Peter Kulchawik (completed, GRA)

Roderick Lammers (completed, GRA)
Brian McCaig (completed)
Jonathan McIntosh (completed, GRA)
John Meyer (completed, GRA)
Sam Michels-Boyce (completed, GRA)
Gabriel Miller (completed, GRA)
Radley Ott (completed)
Nicole Peterson (completed, GRA)
Kevin Pilgrim (completed)
David Pizzi (completed, GRA)
Michael Rafferty (completed)
Tyler Rosburg (completed, GRA)
Erin Ryan (completed, GTA)
Steve Sanborn (completed, GRA)
Joshua Smalley (completed)
Ben Snyder (completed)
Tim Stephens (completed, GRA)
Travis Stroth (completed, GRA)
Christy Wilson (completed)
Dan Woolley (completed)

Graduate Committee Service – member of more than 170 M.S. and Ph.D. committees since 2000.

Postdoctoral Advising

Daniel Baker (CSU)
Christopher Cuhacyan (CSU)
Nahal Hoghooghi (UGA)
Rod Lammers (UGA)
David Raff (CSU)

Visiting Scholars

Wei Cui (UGA)

PUBLICATIONS AND PRESENTATIONS

Refereed Journal Articles

**co-author is current or former graduate advisee*

1. Nelson, D. R., B. P. Bledsoe, J.M. Shepherd. 2020. From Hubris to Humility: Transcending Original Sin in Managing Hydroclimatic Risk. *Anthropocene*, 100239. <https://doi.org/10.1016/j.ancene.2020.100239>
2. *Stephens, T. A., and B.P. Bledsoe. 2020. Low-flow trends at southeast U.S. streamflow gages. *ASCE Journal of Water Resources Planning and Management*, 10.1061/(ASCE)WR.1943-5452.0001212.
3. *Stephens, T. A., and B.P. Bledsoe. 2020. Probabilistic mapping of flood hazards: Depicting uncertainty in streamflow, land use, and geomorphic adjustment. *Anthropocene* 29, 100231.

4. Bestgen, K. R., N.L. Poff, *D.W. Baker, B.P. Bledsoe, D.M. Merritt, M. Lorie, G.T. Auble, J.S. Sanderson, and B.C. Kondratieff. 2020. Designing flows to enhance ecosystem functioning in heavily altered rivers. *Ecological Applications* 30, e02005. 10.1002/eap.200
5. Grantham, T.E., J.H. Matthews, B.P. Bledsoe. 2019. Shifting currents: Managing freshwater systems for ecological resilience in a changing climate. *Water Security* 8, <https://doi.org/10.1016/j.wasec.2019.100049>
6. *Peterson, N.E., C.E. Landry, C.R. Alexander, K. Samples, and B.P. Bledsoe. 2019. Socioeconomic and environmental predictors of estuarine shoreline hard armoring. *Scientific Reports* 9, 16288 (2019) doi:10.1038/s41598-019-52504-y
7. *Lammers, R.W., T.A. Dell, and B.P. Bledsoe. 2019. Integrating Stormwater Management and Stream Restoration Strategies for Greater Water Quality Benefits. *Journal of Environmental Quality*, doi:10.2134/jeq2019.02.0084
8. *Parker, S.R., *S.K. Adams, R.W. Lammers, E.D. Stein, B.P. Bledsoe. 2019. Targeted hydrologic model calibration to improve prediction of ecologically-relevant flow metrics. *Journal of Hydrology*, 573:546-556, <https://doi.org/10.1016/j.jhydrol.2019.03.081>.
9. *Lammers, R.W. and B.P. Bledsoe. 2019. Quantifying pollutant loading from channel sources: watershed-scale application of the river erosion model. *Journal of Environmental Management*, 234:104-114, DOI: 10.1016/j.jenvman.2018.12.074.
10. Cui, W., X. Mu, W. Chen, *T.A. Stephens, and B.P. Bledsoe. 2019. Emergency Control Scheme for Upstream Pools of Long-Distance Canals. *Irrigation and Drainage*, <https://doi.org/10.1002/ird.2297>.
11. Levick, L., S. Hammer, R. Lyon, J. Murray, A. Birtwistle, P. Guertin, D. Goodrich, B. Bledsoe, and M. Laituri. 2018. An Ecohydrological Stream Type Classification of Intermittent and Ephemeral Streams in the Southwestern United States. *Journal of Arid Environments*, 155: 16-35. DOI: 10.1016/j.jaridenv.2018.01.006.
12. *Sholtes, J.S., *S.E. Yochum, J.A. Scott, and B.P. Bledsoe. 2018. Longitudinal Variability of Geomorphic Response to Floods. *Earth Surf. Processes Landforms*, 43(15), DOI: 10.1002/esp.4472.
13. *Lammers, R.W., and B.P. Bledsoe. 2018. A Network Scale, Intermediate Complexity Model for Simulating Channel Evolution Over Years to Decades. *Journal of Hydrology*, 566:886–900, DOI: 10.1016/j.jhydrol.2018.09.036.
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Peer-reviewed Book Chapters

1. Bledsoe, B.P., J.A. Sholtes, and D.W. Baker. 2016. Wetland and River Restoration. Pages 136-1–136-10, Chapter 136 In V.P. Singh (Ed.): *Handbook of Applied Hydrology*, McGraw-Hill.
2. Bledsoe, B.P., S.K. Carney, and R.J. Anderson. 2011. Scale-dependent Effects of Bank Vegetation on Channel Processes: Field Data, Computational Fluid Dynamics, Modeling, and Restoration Design. In S. Bennett, J. Castro, C. Thorne, and A. Simon (Eds.), *The Scientific Basis for Stream Restoration in Dynamic Fluvial Systems: Deterministic Approaches, Analyses and Tools*, American Geophysical Union.

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4. Bledsoe, B.P. 2007. Framework for Risk-based Assessment of Stream Response to Urbanization. Pages 141–156 In V. Novotny and P. Brown (Eds.), *Cities of the Future: Towards Integrated Sustainable Water and Landscape Management*, IWA Publishing, London, UK.
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Online Webcast/Webinar

1. Bledsoe, B.P. (with T. Stephens and others). 2017. Urban Floodplains: Changing Climate, Land Use, and River Channels. Urban Water Innovation Network (UWIN) Research Seminars, Thrust B Series: Project B2-2b Hydrology and Hydraulics of Urban Floodplains, National Science Foundation, online, August 24, YouTube URL: <https://www.youtube.com/watch?v=LQkTtkqCyk&feature=youtu.be>.
2. Bledsoe, B.P. (with R. Lammers and others). 2016. Water Quality Crediting for Stream Restoration Projects. Water Environment & Reuse Foundation (WE&RF) Webcast, through Water Environment Federation Technical Exhibition and Conference (WEFTEC): “Watershed Management: Water Quality Crediting for Stream Restoration Projects,” online, October 26.

Selected Conference Proceedings Papers, Abstracts, and Posters

1. Yaryan Hall, H., D. Fitzpatrick, and B. Bledsoe. 2019. Poster: Functional Assessment of Stream Restoration for Water Quality Benefits in Urban Watersheds. Annual American Ecological Engineering Society Meeting, Asheville, NC.
2. Bledsoe B.P. and Hoghooghi N. 2019. Modeling the effects of Brassica Carinata on hydrology and water quality using SWAT model in Coastal Plain of Georgia. SPARC 2019 Annual Meeting, Quincy, FL.
3. Hoghooghi N. and Bledsoe B.P. 2019, Poster: Modeling hydrological responses, Nutrients and sediment loads of land use changes to a bioenergy crop (Brassica Carinata) in Coastal Plain of Georgia using SWAT. American Geophysical Union fall meeting (AGU), San Francisco, CA.
4. Hoghooghi N., Bledsoe B.P., Pippin J.S., and Radcliffe D.E. 2019. Advances in modeling the influence of onsite wastewater treatment systems on water quantity and quality. Georgia Water Resources Conference, Athens, GA.
5. Hoghooghi N., Bledsoe B.P., and Golden H.E. 2019. Cumulative effects of green infrastructure (GI) on watershed hydrology: A case study and future directions. Georgia Water Resources Conference, Athens, GA.
6. Pippin J.S., Bledsoe B.P., and Hoghooghi N. 2019. Hidden infrastructure: onsite wastewater disposal and sea level rise, Georgia climate conference, Atlanta, GA.

7. Lammers R.W. and Bledsoe B.P. 2019. Between the sea and a hard place: Quantifying the effects of coastal squeeze on salt marsh persistence under rising sea levels. Poster presented at the 19th Annual Meeting of the American Ecological Engineering Society Conference: “Enabling Future Generations to Solve Our Planet’s Grand Challenges”, Asheville, North Carolina, 3-6 June.
8. Lammers R.W., Dell T., and Bledsoe B.P. 2019. Uniting stormwater management and stream restoration strategies for greater water quality benefits. Presented at the 19th Annual Meeting of the American Ecological Engineering Society Conference: “Enabling Future Generations to Solve Our Planet’s Grand Challenges”, Asheville, North Carolina, 3-6 June.
9. Lammers R.W., Dell T., and Bledsoe B.P. 2019. Uniting stormwater management and stream restoration strategies for greater water quality benefits. Presented at the 2019 Georgia Water Resources Conference, Athens, Georgia, 16-17 April.
10. Buhr, D., Bledsoe, B.P., and Lammers, R.W. 2019. Riparian nitrogen modeling: assessment of existing approaches and considerations of channel evolution. Poster presented at the 19th Annual Meeting of American Ecological Engineering Society Conference: “Enabling Future Generations to Solve Our Planet’s Grand Challenges”, Asheville, North Carolina, 3-6 June.
11. Bledsoe, B.P. and Stephens, T.A. Informing floodplain management and hazard communication through probabilistic flood inundation maps. Presented at the 2019 Georgia Water Resources Conference, Athens, Georgia, 16-17 April.
12. Stephens, T.A. and Bledsoe, B.P. Low flow trends at southeast U.S. streamflow gages. Presented at the 2019 Georgia Water Resources Conference, Athens, Georgia, 16-17 April.
13. Stephens, T.A. and Bledsoe, B.P. Informing floodplain management and hazard communication through probabilistic flood inundation maps. Presented at the 2019 Conference of the Association of State Floodplain Managers, Cleveland, Ohio 19-23 May.
14. Stephens, T.A., and Bledsoe, B.P. The uncertainty and severity of flood hazard estimates under nonstationarity. Poster presented at the 2019 National Science Foundation Research Meeting - Urban Water Innovation Network, Fort Collins, CO, 30 July - 1 August.
15. Yaryan Hall, H.R., Bledsoe, B.P., Lammers, R.W., and Fitzpatrick, D. Functional assessment of stream restoration: Improving quantification of hydrologic and water quality potential in urban watersheds. Presented at the 2019 National Watershed and Stormwater Conference, Charleston, South Carolina, 2 May.
16. Nag, S., A.S. Li, V. Ravindra, M.S. Net, K. Cheung, R. Lammers, and B. Bledsoe. 2019. “Autonomous Scheduling of Agile Spacecraft Constellations with Delay Tolerant Networking for Reactive Imaging.” In International Conference on Automated Planning and Scheduling SPARK Workshop. Berkeley, California, U.S.A.

17. Bledsoe, B., and T. Stephens. 2018. Mapping flood hazards under uncertainty through probabilistic flood inundation maps. Water Environment and Reuse Foundation (WERF), 2018 Water Research Foundation Conference, Atlanta, GA, May 6-8.
18. Hoghooghi, N., H. Golden, and B. Bledsoe. 2017. Green infrastructure and watershed-scale hydrology in a mixed land cover system. Abstract H13B-1363, 2017 AGU Fall Meeting, New Orleans, LA, December 11-15.
19. Hoghooghi, N., H. E. Golden, and B. P. Bledsoe. 2017. Green infrastructure and watershed-scale hydrology in mixed land cover system. Poster, 2017 AGU Fall Meeting, New Orleans, LA, December 11-15.
20. Lammers R.W., and B.P. Bledsoe. 2017. An intermediate complexity model for predicting channel incision and evolution at the stream network scale. Abstract: EP31E-08, 2017 AGU Fall Meeting, New Orleans, LA, December 11-15.
21. Stephens, T., B. Bledsoe, A. Miller, and G. Lee. 2017. Mapping flood hazards under uncertainty through probabilistic flood inundation maps. Abstract H31I-1633 and Poster, 2017 AGU Fall Meeting, New Orleans, LA, December 11-15.
22. Miller, A.J., G. Lee, B.P. Bledsoe, T. Stephens. 2017. Mitigation of flood hazards through modification of urban channels and floodplains. Abstract: H31I-1630, 2017 AGU Fall Meeting, New Orleans, LA, December 11-15.
23. Peterson, N., and B. Bledsoe. 2017. Modeling effects of anthropogenic barriers on salt marsh migration under sea-level rise in Coastal Georgia. River Basin Center (RBC) Microconference, UGA, Athens, GA, December 6.
24. Capps, K., B. Bledsoe, D. Capps, L. Fowler, M. Molina, S.K. McKay, J.S. Pippin, J. Rice, A. Rosemond, and S. Wenger. 2017. Integrating stoichiometric thinking into socio-ecological systems: relationships among ecology, wastewater infrastructure, environmental regulations, and human well-being. Poster, Conference of the Programme on Ecosystem Change and Society (PECS), Oaxaca, Oaxaca, Mexico, November 7-10.
25. Peterson, N., and B. Bledsoe. 2017. Modeling effects of anthropogenic barriers on salt marsh migration under sea-level rise in coastal Georgia. Poster, Coastal & Estuarine Research Federation (CERF), CERF2017 Conference, Providence, RI, November 5-9.
26. Stephens, T., and B. Bledsoe. 2017. Hydraulic effects of temporary bridge construction activities. Poster, 5th Annual Transportation Research Expo, Georgia Department of Transportation (GDOT) Office of Research and the Georgia Transportation Institute (GTI), October 5.
27. Stephens, T., Y. Korgaonkar, B. Bledsoe, and T. Meixner. 2017. Linking hydrologic and hydraulic models in the sun corridor of Arizona. Poster, Project B2-2b: Hydrology and Hydraulics of Urban Floodplains, 2017 Urban Water Innovation Network (UWIN) Research Team Annual Meeting, CSU, Fort Collins, CO, July 31-August 2.
28. Stephens, T., B. Bledsoe, A. Miller, and G. Lee. 2017. Hydrology and hydraulics of urban floodplains. Poster, Project B2-2b: Hydrology and Hydraulics of Urban Floodplains, 2017 Urban Water Innovation Network (UWIN) Research Team Annual Meeting, CSU, Fort Collins, CO, July 31-August 2.

29. Hardee, T.L., P.A. Nelson, M.C. Kondratieff, and B.P. Bledsoe. 2017. Evaluation of fish passage at whitewater parks using 2D and 3D hydraulic modeling. Presentation, Rocky Mountain Stream Restoration Conference, Breckenridge, CO, June 27-29.
30. Bledsoe, B.P., E.D. Stein, R.D. Mazor, S.K. Adams, A. Sengupta, and K. McCune. 2017. Estimating hydrologic alteration and setting flow targets that support biological integrity at ungaged sites in a large urbanized region. Abstract, Society for Freshwater Science (SFS) Annual Meeting, SFS2017, Raleigh, NC, June 4-8.
31. Bledsoe, B. 2017. A decade of regional hydromodification research and management in southern California: linking hydrologic alteration, channel morphodynamics, and stream biological response. Presentation, 4th Symposium on Urbanization and Stream Ecology, SUSE4: "Making Urban Stream Rehabilitation a Co-evolutionary Process," Haw River State Park Summit Conference Center, Browns Summit, NC, May 31-June 3.
32. Lammers R.W., and B.P. Bledsoe. 2017. A new intermediate complexity model for predicting channel evolution in stream networks. Presentation, 17th Annual Meeting, American Ecological Engineering Society: "Ecological Engineering for Adaption in the Anthropocene," UGA, Athens, GA, May 22-25.
33. Bledsoe, B. 2017. Probabilistic floodplain mapping as a template for planning urban revitalization. Presentation, 17th Annual Meeting, American Ecological Engineering Society: "Ecological Engineering for Adaption in the Anthropocene," UGA, Athens, GA, May 22-25.
34. Peterson, N., and B. Bledsoe. 2017. Modeling effects of anthropogenic barriers on salt marsh migration under sea-level rise in coastal Georgia. Presentation, 17th Annual Meeting, American Ecological Engineering Society: "Ecological Engineering for Adaption in the Anthropocene," UGA, Athens, GA, May 22-25.
35. Stephens, T., B. Bledsoe, W. Cui, T. Crome, and B. Gallagher. 2017. Low flow trends at southeast U.S. streamflow gages. Presentation, 17th Annual American Ecological Engineering Society Meeting, UGA, Athens, GA, May 22-25.
36. Stephens, T., B. Bledsoe, W. Cui, T. Crome, and B. Gallagher. 2017. Low flow trends at southeast U.S. streamflow gages. Presentation, 2017 Georgia Water Resources Conference (GWRC), 2017 GWRC: "Prosperity through Resilience and Restoration," UGA, Athens, GA, April 19-20.
37. Capps, K., B. Bledsoe, D. Capps, L. Fowler, M. Molina, S. K. McKay, J. S. Pippin, A. Rosemond, J. Rice, and S. Wenger. 2017. Decision-making under duress – prioritizing management activities to preserve the integrity of fresh waters, promote human health, and protect water supplies. Presentation, 2017 Georgia Water Resources Conference (GWRC), 2017 GWRC: "Prosperity through Resilience and Restoration," UGA, Athens, GA, April 19-20.
38. Lammers R.W., and B.P. Bledsoe. 2017. Modifying Bagnold's bedload transport equation for use in watershed-scale channel incision models. Abstract, American Geophysical Union (AGU) Hydrology Days 2017, Colorado State University, Fort Collins, CO, March 20-22.

39. Adams, S.K., and B.P. Bledsoe. 2017. A novel regional approach for estimating ecological streamflow regimes in ungaged basins combining hydrological and statistical modeling. Abstract, American Geophysical Union (AGU) Hydrology Days 2017, Colorado State University, Fort Collins, CO, March 20-22.
40. Hardee, T.L., P.A. Nelson, M.C. Kondratieff, and B.P. Bledsoe. 2017. Evaluation of fish passage at whitewater parks using 2D and 3D hydraulic modeling. Abstract, American Geophysical Union (AGU) Hydrology Days 2017, Colorado State University, Fort Collins, CO, March 20-22.
41. Lammers, R.W., and B.P. Bledsoe. 2016. Modifying Bagnold's sediment transport equation for use in watershed-scale channel incision models. Abstract EP53C-0983, 49th Annual Fall Meeting of the American Geophysical Union, San Francisco, CA, December 12-16.
42. Hardee, T., P.A. Nelson, M. Kondratieff, and B. P. Bledsoe. 2016. Evaluation of fish passage at whitewater parks using 2D and 3D hydraulic modeling. Abstract EP53D-1001, 49th Annual Fall Meeting of the American Geophysical Union, San Francisco, CA, December 12-16.
43. Stephens, T.A., and B.P. Bledsoe. 2016. A probabilistic floodplain mapping framework for increased resilience under non-stationarity. Poster, 2016 Sustainability Science Summit, University of Georgia (UGA), Center for Integrative Conservation Research (CICR), Athens, GA, December 6.
44. Stephens, T.A., and B. Bledsoe. 2016. An assessment framework for increased resilience to urban flooding under non-stationarity. Abstract, 2016 Sustainability Science Summit, University of Georgia (UGA), Center for Integrative Conservation Research (CICR), Athens, GA, December 6.
45. Lammers, R., B.P. Bledsoe, and D. Baker. 2016. Big Dry Creek case study: CLEAN Center Research Project 4: fluvial instability and riparian degradation. PowerPoint Presentation, 2016 Big Dry Creek Watershed Update (J. Clary): What's New with Your Neighbor? – South Platte Cooperative for Urban River Evaluation (SP CURE), October 25.
46. Mazor, R., J. May, A. Sengupta, K. McCune, B. Bledsoe, and E. Stein. 2016. Setting regional targets based on flow-ecology relationships to support biological integrity. Presentation, California Aquatic Bioassessment Workgroup (CABW) Meeting, Davis, CA, October 18-19.
47. Bledsoe, B., J. Jones, E. Strecker, S. Struck, M. Leisenring, J. Clary, R. Lammers, and A. McGuire. 2016. Development of a stream restoration practices database: initial progress. Presentation, 89th Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), New Orleans, LA, September 24-28.
48. Stein, E.D., R. Mazor, A. Sengupta, B. Bledsoe, S. Adams, J. May, L. Brown, D. Carlisle, and C. Konrad. 2016. Setting instream flow targets in California using biological community health indices. Presentation, California Stormwater Quality Association (CASQA) 12th Annual Conference, San Diego, CA, September 12-14.

49. Bledsoe, B. 2016. Project B2-2b: hydrology and hydraulics of urban floodplains. Presentation, Urban Water Innovation Network (UWIN) Research Team Annual Meeting: “Understanding our Common Framework and Desired Contributions to the Urban Water Blueprint,” Fort Collins, CO, August 3-5.
50. Lammers, R.W., and B.P. Bledsoe. 2016. Can stream restoration remedy the nutrient pollution problem? Presentation, 16th Annual American Ecological Engineering Society (AEES) Conference: “Rooftops to Rivers: Integrating Built and Natural Systems,” Knoxville, TN, June 7-9.
51. Stephens, T., B. Fox, N. Kolden, and B. Bledsoe. 2016. Investigation of the effects of whitewater parks on aquatic resources: a spatially explicit hydraulic analysis. Abstract, 16th Annual American Ecological Engineering Society (AEES) Conference: “Rooftops to Rivers: Integrating Built and Natural Systems,” Knoxville, TN, June 7-9.
52. Stephens, T.A., B.P. Bledsoe, B.D. Fox, and E. Kolden. 2016. Investigation of the effects of whitewater parks on aquatic resources: a spatially explicit hydraulic analysis. Poster, 16th Annual American Ecological Engineering Society (AEES) Conference: “Rooftops to Rivers: Integrating Built and Natural Systems,” Knoxville, TN, June 7-9.
53. Adams, S.K., P. Turk, and B.P. Bledsoe. 2016. Forecasting stream flow with cluster analysis. Poster, Celebrate Undergraduate Research and Creativity (CURC) Showcase, Colorado State University, Fort Collins, CO, April 18.
54. Lammers, R.W., and B.P. Bledsoe. 2016. Can stream restoration remedy the nutrient pollution problem? Abstract, American Geophysical Union (AGU) Hydrology Days 2016, Colorado State University, Fort Collins, CO, March 21-23.
55. Stroth, T.R., and B.P. Bledsoe. 2016. Stable channel design tool using the Capacity/Supply Ratio (CSR). Abstract, American Geophysical Union (AGU) Hydrology Days 2016, Colorado State University, Fort Collins, CO, March 21-23.
56. Lammers, R.W., and B.P. Bledsoe. 2015. Uncertainty and sensitivity in bank stability modeling: implications for estimating phosphorus loading. Abstract, American Geophysical Union (AGU) Hydrology Days 2015, Colorado State University, Fort Collins, CO, March 23-25.
57. Rosburg, T., P.A. Nelson, and B.P. Bledsoe. 2015. The effect of urbanization on flow duration curves: a case study from selected streams in the Puget Sound Basin, Western Washington. Abstract, American Geophysical Union (AGU) Hydrology Days 2015, Colorado State University, Fort Collins, CO, March 23-25.
58. Adams, S.K., and B.P. Bledsoe. 2015. The influence of different calibration criteria on a rainfall-runoff model’s ability to predict biologically important flow metrics when transferred to ungaged basins. Abstract, American Geophysical Union (AGU) Hydrology Days 2015, Colorado State University, Fort Collins, CO, March 23-25.
59. Sholtes, J.S., and B.P. Bledsoe. 2015. Magnitude and frequency of sediment transport in alluvial channels. Abstract, American Geophysical Union (AGU) Hydrology Days 2015, Colorado State University, Fort Collins, CO, March 23-25.

60. Ryan, E.R., T.A. Stephens, and B.P. Bledsoe. 2015. An evaluation of 2-D vs. 3-D hydraulic analyses investigating the effects of whitewater parks on fish passage. Abstract, American Geophysical Union (AGU) Hydrology Days 2015, Colorado State University, Fort Collins, CO, March 23-25.
61. Levick, L., S. Hammer, P. Guertin, R. Lyon, J. Murray, D. Goodrich, A. Birtwistle, B. Bledsoe, and M. Laituri. 2015. An Ecohydrological Approach to Managing Intermittent and Ephemeral Streams on Department of Defense Lands in the Southwestern United States. Poster, SERDP Project RC-1727, Department of Defense, Strategic Environmental Research and Development Program (SERDP), Resource Conservation and Climate Change Program Area.
62. Sholtes, J., and B. Bledsoe. 2014. On the magnitude and frequency of sediment transport in alluvial channels. Poster, EP33A-3613, American Geophysical Union Fall Meeting, San Francisco, CA, December 15-19.
63. Stephens, T., B. Fox, N. Kolden, and B.P. Bledsoe. 2014. Spatially explicit hydraulic analysis of the effects of whitewater parks on fish passage. Abstract, International Conference on Engineering and Ecohydrology for Fish Passage, University of Wisconsin, Madison, WI, June 9-11.
64. Eberhart, S.R., and B.P. Bledsoe. 2014. Developing flow-ecology relationships in southern California. Poster, 2014 Joint Aquatic Sciences Meeting “Bridging Genes to Ecosystems: Aquatic Science at a Time of Rapid Change,” Portland, OR, May 18-23.
65. Eberhart, S.R., and B.P. Bledsoe. 2014. Developing flow-ecology relationships in southern California. Abstract, *Proceedings of the 34th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 24-26.
66. Stephens, T., B. Fox, N. Kolden, and B. Bledsoe. 2014. Investigation of the effects of whitewater parks on aquatic resources in Colorado. Abstract, *Proceedings of the 34th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 24-26.
67. Federico, F., E. Stein, D. Booth, B. Bledsoe, C. Bowles, E. Berntsen, and G. Gearheart. 2012. An integrated hydromodification management framework to protect instream communities. Abstract, Society for Conservation Biology Conference, Oakland, CA, July 15-18.
68. Sanderson, J., B. Bledsoe, N. LeRoy Poff, T. Wilding, W. Miller, and N. Fey. 2012. Colorado Basin Roundtable Watershed Flow Evaluation Tool Study. Northwest Colorado Council on Governments, March.
69. Bledsoe, B.P., and E.A. Carlson. 2012. A Geomorphic Valley Classification for Fluvial Riparian Areas. Appendix E – Geomorphic Subclassification In Sanderson, J., B. Bledsoe, N. LeRoy Poff, T. Wilding, W. Miller, and N. Fey: Colorado Basin Roundtable Watershed Flow Evaluation Tool Study. Northwest Colorado Council on Governments, March, 30 p.

70. Bledsoe, B., R. Hawley, and E. Stein. 2011. Screening, Modeling, and Restoring Urban Streams Affected by Hydromodification – Part 2: Choosing Modeling Tools and Assessing Restoration Potential. Abstract 1060 presented at the ASCE Environmental and Water Resources Institute 2011 World Environmental & Water Resources Congress, “Bearing Knowledge for Sustainability,” Palm Springs, CA, May 22-26.
71. Bledsoe, B., R. Hawley, and E. Stein. 2011. Screening, Modeling, and Restoring Urban Streams Affected by Hydromodification – Part 1: Screening Tools for Assessing Susceptibility. Abstract 642 presented at the ASCE Environmental and Water Resources Institute 2011 World Environmental & Water Resources Congress, “Bearing Knowledge for Sustainability,” Palm Springs, CA, May 22-26.
72. Sengupta, A., R. Hawley, B.P. Bledsoe, and E. Stein. 2011. Screening and Prediction of Hydromodification Effects Using Artificial Neural Networks. Abstract 536 presented at the ASCE Environmental and Water Resources Institute 2011 World Environmental & Water Resources Congress, “Bearing Knowledge for Sustainability,” Palm Springs, CA, May 22-26.
73. Mueller Price, J., B.P. Bledsoe, and D.W. Baker. 2011. Investigating Temporal Variability in Nitrate Uptake in Paired Stream Reaches Due to Changes in Streamflow. Poster (ID: B33A-0421), American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 5-9.
74. Hawley, R.J., B.P. Bledsoe, and E.D. Stein. 2010. Effects of Urbanization on the Flow Regimes of Semi-arid Southern California Streams. Poster (ID: H43E-1306), American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 13-17.
75. Mueller Price, J., B.P. Bledsoe, and D.W. Baker. 2010. Exploring Interactions of Geomorphic Setting, Flow Variability, and Restoration on Nitrate Uptake and Transient Storage in Streams. Poster (ID: H21C-1061), American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 13-17.
76. Wilding, T.K., N.L. Poff, and B.P. Bledsoe. 2010. A Generalized Habitat Model for Rocky Mountain Streams. *In Proceedings of the 30th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 22-24.
77. Yochum, S.E. and B.P. Bledsoe. 2010. Flow Resistance Estimation in High-gradient Streams. Joint Federal Interagency Conference on Sedimentation and Hydrologic Modeling (JFIC2010: 9thFISC & 4thFIHMC), Las Vegas, NV, June 27 - July 1.
78. Baker, D.W., J.M. Price, and B.P. Bledsoe. 2009. Nutrient Uptake and Transient Storage over a Gradient of Geomorphic Complexity. Abstract H41J-08, *Eos Transactions American Geophysical Union (AGU)*, 90(52), Fall Meet. Suppl.
79. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2009. Can rehabilitation techniques in agricultural streams influence transient storage and nitrate uptake? Poster, American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 14-18.
80. Yochum, S.E., B.P. Bledsoe, G.C.L. David, and E.E. Wohl. 2009. Characterization of Flow Resistance in High-gradient Streams. Poster, American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 14-18.

81. Bledsoe, B. P. 2009. Developing a Hydrologic Foundation for Environmental Flow Management: Context-specific Applications. Abstract, *Bulletin of the North American Benthological Society (NABS 2009)*, 57th Annual Meeting, Grand Rapids, MI, May 17-22.
82. Wilding, T.K., J. Sanderson, N.L. Poff, B.P. Bledsoe, and N. Rowan. 2009. A Regional Flow Evaluation Tool for Colorado using ELOHA. Abstract, *Bulletin of the North American Benthological Society (NABS 2009)*, 57th Annual Meeting, Grand Rapids, MI, May 17-22.
83. Baker, D.W., B.P. Bledsoe, and C.M. Albano. 2009. Fine Sediment Distribution and Benthic Habitat Alteration by Small Diversion Dams on Rocky Mountain Streams. *In Proceedings of the 29th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 25-27.
84. Hawley, R.J. and B.P. Bledsoe. 2009. A Screening Tool for Assessing Channel Sensitivity to Hydromodification in Southern California. *In Proceedings of the 29th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 25-27.
85. Hawley, R.J. and B.P. Bledsoe. 2009. Long-term Effects of Urbanization on the Flow Rates and Durations of Small Streams in Southern California. *In Proceedings of the 29th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 25-27.
86. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2009. Investigating How Natural Rehabilitation of an Agricultural Stream Can Affect Transient Storage and Nitrate Uptake. *In Proceedings of the 29th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 25-27.
87. Bledsoe, B., A. Dussaillant, E. Habit, C. Meier, O. Parra, and L. Poff. 2009. Applying the Ecological Limits of Hydrologic Alteration (ELOHA) Framework in Central and Southern Chile: Prospects and Challenges. HEIC 2009, Joint Meeting of the “7th Symposium on Ecohydraulics” and “8th Conference on Hydroinformatics,” Concepción, Chile, January 12-16.
88. Wright, S.J., O. Parra, and B.P. Bledsoe. 2008. Give and Take: The Toll on Ecosystems. Invited white paper for Sigma Xi’s *Critical Issues in Science Series 2008 “Year of Water,”* posted and available at <http://www.sigmaxi.org/programs/issues/whitepapers.shtml>; reprints disseminated at the Sigma Xi Annual Meeting & Student Research Conference, Washington, DC, November 20-23.
89. Baker, D.W., J. Mueller-Price, and B.P. Bledsoe. 2008. Deciphering Highly Variable Tracer Data from Geomorphically Complex Urban and Agricultural Streams. Abstract H33F-1063, *Eos Transactions American Geophysical Union (AGU)*, 89(53), Fall Meet. Suppl.
90. David, G.C., E.E. Wohl, S.E. Yochum, and B.P. Bledsoe. 2008. Characterizing Flow Resistance in Step-pool, Plane-bed and Cascade reaches, Fraser Experimental Forest, Colorado, USA. Abstract H53B-1027, *Eos Transactions American Geophysical Union (AGU)*, 89(53), Fall Meet. Suppl.

91. Yochum, S.E., B.P. Bledsoe, G.C. David, and E.E. Wohl. 2008. Characterization of Reach Velocity and Detailed Geometry in Well-vegetated, High-gradient Streams. Abstract H53B-1028, *Eos Transactions American Geophysical Union (AGU)*, 89(53), Fall Meet. Suppl.
92. Baker, D.W., J. Mueller-Price, and B.P. Bledsoe. 2008. Comparison of Stream Nitrate Uptake and Geomorphic Complexity in Agricultural and Urban Settings. Poster, *Bulletin of the North American Benthological Society*, NABS 2008, 56th Annual Meeting, Salt Lake City, UT, May 25-28.
93. Mueller-Price, J., D.W. Baker, and B.P. Bledsoe. 2008. Influences of Sudden Changes in Physical Stream Characteristics on Nitrate Uptake in an Urban Stream. Poster, *Bulletin of the North American Benthological Society*, NABS 2008, 56th Annual Meeting, Salt Lake City, UT, May 25-28.
94. Pyne, M.I., N.L. Poff, B.P. Bledsoe, and A.T. Herlihy. 2008. Estimation of Taxa Abundances Using a Bayesian Belief Network. Poster, *Bulletin of the North American Benthological Society*, NABS 2008, 56th Annual Meeting, Salt Lake City, UT, May 25-28.
95. Hawley, R.J., Bledsoe, B.P. and E. Stein. 2008. A Channel Evolution Model in Response to Urbanization in Southern California. In *Proceedings of the 28th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Abstract, Colorado State University, Fort Collins, CO, March 19-21.
96. Dust, D.W., R.J. Hawley, and B.P. Bledsoe. 2007. Observed Changes in Stream Morphology Due to Hydromodification in Southern California. Abstract H43D-1616, *Eos Transactions American Geophysical Union (AGU)*, 88(52), Fall Meet. Suppl.
97. Bledsoe, B.P., D.W. Dust, and R.J. Hawley. 2007. Regional Variability of Stream Responses to Urbanization: Implications for Risk-based Assessments. Invited Abstract H52D-03, *Eos Transactions American Geophysical Union (AGU)*, 88(52), Fall Meet. Suppl.
98. Baker, D.W., J. Mueller Price, and B.P. Bledsoe. 2007. A Multi-reach Comparison of Geomorphic Complexity and Hyporheic Exchange in Agricultural and Urban Streams. Abstract H41A-0125, *Eos Transactions American Geophysical Union (AGU)*, 88(52), Fall Meet. Suppl.
99. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2007. Effects of a Flash Flood on Physical Stream Characteristics and Nitrate Uptake in an Urban Stream. Abstract H51B-0454, *Eos Transactions American Geophysical Union (AGU)*, 88(52), Fall Meet. Suppl.
100. Hawley, R.J., D.W. Dust, and B.P. Bledsoe. 2007. Channel Responses and Hydromodification in Southern California. Abstract H43D-1615, *Eos Transactions American Geophysical Union (AGU)*, 88(52), Fall Meet. Suppl.
101. Baker, D.W., B.P. Bledsoe, C.M. Albano, and N.L. Poff. 2007. Ecohydraulic Effects of Flow Extraction in Rocky Mountain Streams. Poster, *Bulletin of the North American Benthological Society*, 55th Annual Meeting, Columbia, SC, June 3-8.

102. Apse, C., A.H. Arthington, B.P. Bledsoe, S.E. Bunn, D. Merritt, R.J. Naiman, N.L. Poff, B. Richter, K.H. Rogers, R. Tharme, and A.T. Warner. 2007. Ecological Limits of Hydrologic Alteration: An Approach for Setting Regional Environmental Flow Standards. Special Session, *Bulletin of the North American Benthological Society*, 55th Annual Meeting, Columbia, SC, June 3-8.
103. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2007. Variability in Nitrate Uptake and Geomorphic Complexity in Two Segments of an Urban Stream. Poster, *Bulletin of the North American Benthological Society*, 55th Annual Meeting, Columbia, SC, June 3-8.
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105. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2007. Reconsidering Nitrate Uptake Experiments in Streams. *In Proceedings of the 24th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 19-21.
106. Baker, D.W., J. Mueller Price, and B.P. Bledsoe. 2007. The Influence of Stream Geomorphic Complexity on Hyporheic Flow Processes. *In Proceedings of the 24th Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 19-21.
107. Poff, N.L., B.P. Bledsoe, and C.O. Cuhaciyan. 2006. Hydrologic Variation with Land Use Across the Contiguous United States: Geomorphic and Ecological Consequences for Stream Ecosystems. *Proceedings of the 37th International Binghamton Geomorphology Symposium* (L.A. James and W.A. Marcus, Eds.), Columbia, SC, October 20-22.
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111. David, G., B.P. Bledsoe, D.M. Merritt, and E. Wohl, 2006. Effects of Snow-making, Grading, and Timber Harvest on Stream Channel Morphology in the White River National Forest, Colorado. *In Proceedings of the 23rd Annual American Geophysical Union Hydrology Days* (J.A. Ramirez, Ed.), Colorado State University, Fort Collins, CO, March 20-22.

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113. Brown, M.C., B.P. Bledsoe, and D.A. Raff, 2006. The GeoTools Shareware Package for Fluvial Systems Analysis. *In Proceedings of the 2006 World Environmental and Water Resources Congress (EWRI)* (R. Graham, Ed.), American Society of Civil Engineers, ISBN 0-7844-0856-4, Omaha, NE, May 21-25.
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115. Albano, C.M., N.L. Poff, D.W. Baker, and B.P. Bledsoe, 2006. Macroinvertebrate community response to streamflow diversion magnitude in Rocky Mountain streams. Presented at the Bulletin of the North American Benthological Society, 54th Annual Meeting, Anchorage, AK, June 4-9.
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125. Bledsoe, B. P. and C.C. Watson. 2000. Observed Thresholds of Stream Ecosystem Degradation in Urbanizing Areas: A Process-Based Geomorphic Explanation. *In Watershed Management 2000: Science and Engineering Technology for the New Millennium* (M. Flug and D. Frevert, Eds.), American Society of Civil Engineers, Fort Collins, CO, June 21-24.
126. Watson, C.C., B.P. Bledsoe, and D.S. Biedenharn. 2000. System-Level Analysis of Watershed Instability in the Yalobusha Basin, Mississippi. *In Watershed Management 2000: Science and Engineering Technology for the New Millennium* (M. Flug and D. Frevert, Eds.), American Society of Civil Engineers, Fort Collins, CO, June 21-24.
127. Firenzi, A.L., C.C. Watson, and B.P. Bledsoe. 2000. Stable Channel Design for Mobile Gravel Bed Rivers. *In Proceeding of the ASCE Water Resources Engineering Conference*, Minneapolis, MN, July 30 - August 2.
128. Haupt, D.M., C.J. Bruce, and B.P. Bledsoe. 1998. A Geographic Information System for Targeting Wetland Restoration. *In Wetlands Engineering and River Restoration Conference: Protecting, Restoring, and Managing the World's Water Resources*. American Society of Civil Engineers, Denver, CO, March 1998.
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130. Bledsoe, B. P., J. E. Wuenschel, and L. A. Sutter. 1995. Identifying and Prioritizing Potential Wetland Restoration Sites in the Coastal Plain of North Carolina, *In Proceedings of the National Interagency Workshop on Wetlands: Technology Advances for Wetlands Science*. Technical Report, Wetlands Research and Technology Center, USACE Waterways Experiment Station, Vicksburg, MS.
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132. Shear, T.H., and B. P. Bledsoe. 1993. Relationships between plant communities, microtopography, and hydrology and implications for swamp restoration and creation. In *Proceedings of the Conference on Engineering for Wetlands Restoration*, U.S. Army Corps of Engineers, St. Louis, MO.

Selected Reports

1. Bledsoe, B.P., H. Yaryan Hall, R. Lammers. 2019. Evaluation of and Recommendations for Functional Assessment of Stream Restoration for Water Quality Benefits in Urban Watersheds. Final Report to the Water Research Foundation. WRF ISBN: 978-1-60573-429-3, WRF Project Number: SIWM16R16/4838.
2. Bledsoe, B. and T. Stephens. 2018. Modeling of Water Availability in the Southern Company Footprint. Southern Company, Final Report.
3. Bledsoe, B., D. Baker, P. Nelson, T. Rosburg, J. Sholtes, and T. Stroth. 2017. Design Hydrology for Stream Restoration and Channel Stability at Stream Crossings. Final Report, National Cooperative Highway Research Program (NCHRP) Project 24-40, Washington, DC, May, 243 p.
4. Bledsoe, B., D. Baker, P. Nelson, T. Rosburg, J. Sholtes, and T. Stroth. 2017. Guidance for Design Hydrology for Stream Restoration and Channel Stability. NCHRP Report 853, National Cooperative Highway Research Program (NCHRP) Project 24-40, Washington, DC, May, 95 p.
5. Stein, E.D., R.D. Mazor, A. Sengupta, K. McCune, B.P. Bledsoe, S.K. Adams, S.R. Eberhart, M.I. Pyne, P.R. Ode, and A.C. Rehn. 2017. Development of Recommended Flow Targets to Support Biological Integrity Based on Regional Flow-ecology Relationships for Benthic Macroinvertebrates in Southern California Streams. Southern California Coastal Water Research Project (SCCWRP) Technical Report 974, Costa Mesa, CA, March, 117 p.
6. Stephens, T., and B. Bledsoe. 2017. Hydrology and Hydraulics of Urban Floodplains: A Regional Comparison. Final Report, 2016 Pathfinder Fellowship Award, Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI), NSF, 10 p.
7. Bledsoe, B., R. Lammers, J. Jones, J. Clary, A. Earles, E. Strecker, M. Leisenring, S. Struck, and A. McGuire. 2017. Stream Restoration BMP Database: Version 1.0. Summary Report, Project No. WERF-U5R14, Water Environment & Reuse Foundation (WE&RF), Alexandria, VA, January, online PDF (www.werf.org), 183 p.
8. Bledsoe, B., R. Lammers, J. Jones, J. Clary, A. Earles, E. Strecker, M. Leisenring, S. Struck, and A. McGuire. 2016. Stream Restoration as a BMP: Crediting Guidance. Final Report, Project No. WERF-1T13, Water Environment & Reuse Foundation (WE&RF), Alexandria, VA, November, online PDF (www.werf.org), 120 p.
9. Bledsoe, B., D. Baker, P. Nelson, T. Rosburg, J. Sholtes, and T. Stroth. 2016. Design Hydrology for Stream Restoration and Channel Stability at Stream Crossings. Technical Report, National Cooperative Highway Research Program (NCHRP) Project 24-40, Washington, DC, September, 329 p.

10. Sholtes, J., and B. Bledsoe. 2016. River Adjustment and Flood Hazards on the Colorado Front Range. Completion Report, Colorado Water Conservation Board, Floodplain Management Program, Denver, CO, August, 26 p.
11. Baker, D., B. Bledsoe, and T. Hardee. 2016. Upper Arkansas River 2015 Monitoring Assessment. Technical Memo, Colorado Parks & Wildlife, Denver, CO, April, 6 p. + electronic supplements.
12. Bledsoe, B.P., D.W. Baker, and K.R. Bestgen. 2016. An Ecosystem Response Model for the Cache la Poudre River, Colorado: Understanding Past Ecological and Physical Conditions to Guide Future State Choices in an Uncertain Hydrologic Environment. Technical Paper, City of Fort Collins, Fort Collins, CO, January, 44 p.
13. Levick, L., S. Hammer, R. Lyon, P. Guertin, J. Murray, A. Birtwistle, B. Bledsoe, M. Laituri, and D. Goodrich. 2015. An Ecohydrological Approach to Managing Intermittent and Ephemeral Streams on Department of Defense Lands in the Southwestern United States. Final Report, SERDP Project RC-1727, Department of Defense, Strategic Environmental Research and Development Program (SERDP), January, 577 p.
14. Wohl, E., K. Bestgen, B. Bledsoe, K. Fausch, M. Gooseff, and N. Kramer. 2015. Management of Large Wood in Streams of Colorado's Front Range: A Risk Analysis Based on Physical, Biological, and Social Factors. Colorado Water Institute (CWI), Colorado State University, Fort Collins, CO, January, 50 p., URL: <http://www.bighthompson.co/wp-content/uploads/2015/07/Risk-Analysis-for-Wood-In-Streams-Wohl.pdf>.
15. Bledsoe, B., D. Baker, P. Nelson, T. Rosburg, J. Sholtes, and T. Stroth. 2015. Design Hydrology for Stream Restoration and Channel Stability at Stream Crossings. National Cooperative Highway Research Program (NCHRP), Interim Report Contract Period: July 22, 2014 through September 30, 2015, 88 p. [plus four quarterly and twelve monthly progress reports submitted in 2015].
16. Bledsoe, B., D. Baker, P. Nelson, and R. Hawley. 2014. Design Hydrology for Stream Restoration and Channel Stability at Stream Crossings. National Cooperative Highway Research Program (NCHRP), Interim Report Contract Period: July 22, 2013 through September 30, 2014, 88 p. [plus four quarterly and twelve monthly progress reports submitted in 2014].
17. Bledsoe, B.P., B.D. Fox, T.A. Stephens, E. Kolden, and E.R. Ryan. 2014. Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado. Colorado Water Conservation Board, September, 112 p.
18. Beeby, J., B. Bledsoe, and K. Hardie. 2014. Colorado River in Eagle County Inventory and Assessment. Eagle River Watershed Council, June, 227 p.
19. Bledsoe, B.P. and others on the Ecological Response Modeling Team. 2014. An Ecological Response Model for the Cache la Poudre River through Fort Collins. Report prepared for the City of Fort Collins, November, 140 pp.

20. Stein, E.D. and B.P. Bledsoe. 2013. Modeling and Managing Hydromodification Effects: Summary of Available Tools and Decision-making Approach. Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA, November, 72 pp. + Appendix.
21. Bledsoe, B.P., J.C. Beeby, and K.W. Hardie. 2013. Evaluation of Flushing Flows in the Fraser River and Its Tributaries. Colorado Trout Unlimited, September, 197 pp. + Appendix G.
22. Bledsoe, B.P., E. Kolden, B. Fox, and T. Stephens. 2013. Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado. Colorado Water Conservation Board, September, 63 pp.
23. Bledsoe, B.P. and J.C. Beeby. 2013. Herbert Hoover National Historic Site. Chapter for the National Park Service (NPS), Natural Resource Condition Assessments (NRCA), Center for Environmental Management of Military Lands (CEMML), August, 9 pp.
24. Bledsoe, B.P. and J.C. Beeby. 2013. Homestead National Monument. Chapter for the National Park Service (NPS), Natural Resource Condition Assessments (NRCA), Center for Environmental Management of Military Lands (CEMML), August, 7 pp.
25. Bledsoe, B.P. and J.C. Beeby. 2013. Pipestone National Monument. Chapter for the National Park Service (NPS), Natural Resource Condition Assessments (NRCA), Center for Environmental Management of Military Lands (CEMML), August, 7 pp.
26. Bledsoe, B.P. and J.C. Beeby. 2013. Tallgrass Prairie National Preserve. Chapter for the National Park Service (NPS), Natural Resource Condition Assessments (NRCA), Center for Environmental Management of Military Lands (CEMML), August, 14 pp.
27. Stein, E.D., F. Federico, D.B. Booth, B.P. Bledsoe, C. Bowles, Z. Rubin, G.M. Kondolf, and A. Sengupta. 2012. Hydromodification Assessment and Management in California. Southern California Coastal Water Research Project (SCCWRP), Technical Report #667, Costa Mesa, CA, April, 138 pp.
28. Beeby, J., P. Kulchawik, and B. Bledsoe. 2012. Assessments and Rehabilitation Decision-making Framework for the Streams of Fort Collins. Report prepared for the City of Fort Collins Stormwater Division, Fort Collins, CO.
29. Bledsoe, B.P. 2011. CAREER: Stream Restoration, Ecological Engineering, and Nutrient Retention of Streams in Urban and Agricultural Settings. National Science Foundation Annual Report (Award ID: 0548258), Final Report, November.
30. Baker, D.W. and B.P. Bledsoe. 2011. Probabilistic Sampling and Study Design in Riparian Monitoring Technical Guide for the Western US. D. M. Merritt (Ed.), U.S. Forest Service, Rocky Mountain Research Station, Fort Collins, CO.
31. Booth, D.B., S.R. Dusterhoff, E.D. Stein, and B.P. Bledsoe. 2010. Hydromodification Screening Tools: GIS-based Catchment Analyses of Potential Changes in Runoff and Sediment Discharge. Technical Report #605, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA.

32. Bledsoe, B.P., R.J. Hawley, E.D. Stein, and D.B. Booth (2010). Hydromodification Screening Tools: Field Manual for Assessing Channel Susceptibility. Technical Report #606, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA.
33. Bledsoe, B.P. 2009. CAREER: Stream Restoration, Ecological Engineering, and Nutrient Retention of Streams in Urban and Agricultural Settings. National Science Foundation Annual Report (Award ID: 0548258), Annual Report for Period: February 2009 - January 2010, December.
34. Bledsoe, B., R. Hawley, and E.D. Stein. 2009. Hydromodification Screening Tool for Southern California for Field Testing/TAC Review. Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA, November, 36 pp.
35. Bledsoe, B., R. Hawley, and E.D. Stein. 2008. Stream channel classification and mapping systems: Implications for assessing susceptibility to hydromodification effects in southern California. Southern California Coastal Water Research Project (SCCWRP), Technical Report #562, Costa Mesa, CA, April 30, 38 pp.
36. Bledsoe, B.P. 2008. CAREER: Stream Restoration, Ecological Engineering, and Nutrient Retention of Streams in Urban and Agricultural Settings. National Science Foundation Annual Report (Award ID: 0548258), Annual Report for Period: February 2008 - January 2009, December 23, 2008.
37. Poff, N.L., B.P. Bledsoe, and D. Dean. 2008. Linking Watershed Characteristics with Flow Regime and Geomorphic Context to Diagnose Water Quality Impairment at Multiple Spatiotemporal Scales. Report to the U.S. Environmental Protection Agency, EPA Grant Number R831367.
38. Bledsoe, B.P. 2008. Grantee Final Report, U.S. Scholar Fulbright Program. Report to the Council for International Exchange of Scholars, Grant dates February - June.
39. Bledsoe, B.P., R. Hawley and E. Stein. 2008. Channel Classification and Mapping Systems with Implications for Assessing Susceptibility to Hydromodification in Southern California. Report to the Southern California Coastal Water Research Project, Costa Mesa, CA, February, 38 p.
40. Raff, D.A., Bledsoe, B.P., A.N. Flores, and M.C. Brown. 2007. GeoTool User's Manual. Version 4 Report for posting on the Internet, July, 93 pp. + app.
41. Bledsoe, B. P., and J. Meyer. 2006. Monitoring of the Little Snake River and Tributaries, Year 5 – Final Report. Report to Three Forks Ranch Corporation and Porzak, Browning, and Bushong LLP, Boulder, CO, November, 38 pp. + app.
42. Bledsoe, B., J. Meyer, E. Holburn, C. Cuhacyan, S. Earsom, and B. Snyder. 2005. Eagle River Inventory and Assessment. Final Report to the Eagle River Watershed Council, Colorado Dept. of Public Health and Environment, and Great Outdoors Colorado, 550 pp. + app.
43. Bledsoe, B.P., and J. Meyer. 2004. Monitoring of the Little Snake River and Tributaries, Year 4. Report to Three Forks Ranch Corporation and Porzak, Browning, and Bushong LLP, Boulder, CO, November, 32 pp. + app.

44. Bledsoe, B.P., D.A. Raff, and A.N. Flores. 2004. GeoTool User's Manual. Final Report Submitted to U.S. Army Corps of Engineers, Engineering Research and Development Center Vicksburg, MS, 88 pp. + app.
45. Bledsoe, B.P., and S.K. Carney. 2003. Monitoring of the Little Snake River and Tributaries, Year 3. Report to Three Forks Ranch Corporation and Porzak, Browning, and Bushong LLP, Boulder, CO, November, 30 pp. + app.
46. Bledsoe, B.P., and R.J. Anderson. 2002. Geomorphic Assessment of the Big Sandy River Downstream of Farson, Wyoming. Final Report to the U.S. Department of Interior, Bureau of Reclamation, 50 pp. + app.
47. Roesner, L.A., and B.P. Bledsoe. 2002. Physical Effects of Wet Weather Flows on Aquatic Habitats – Present Knowledge and Research Needs. Final Report to Water Environment Research Foundation, WERF Project Number 00-WSM-4, 250 pp.
48. Bledsoe, B.P., R.J. Anderson, S.K. Carney, C.C. Watson. 2002. Monitoring of the Little Snake River and Tributaries, Year 2. Report to Three Forks Ranch Corporation and Porzak, Browning, and Bushong LLP, Boulder, CO, August, 21 p. + app.
49. Bledsoe, B.P., R.J. Anderson, and C.C. Watson. 2001. Monitoring of the Little Snake River and Tributaries. Report Submitted to Three Forks Ranch Corporation, August.
50. Bledsoe, B.P., K.A. O'Connor, C.C. Watson, and K.H. Carlson. 2000. Phosphorus Content of Streambed, Bank, and Upland Sediments: Long Creek and Johnson Creek Watersheds, Mississippi. Report Submitted to the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS, November.
51. Battikhi, A., B.P. Bledsoe, C.C. Watson. 2000. Benefits of Stream Stabilization in the Yazoo River Basin, Mississippi. Report Submitted to the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS, November .
52. Watson, C.C, B.P. Bledsoe, and C.I. Thornton. 2000. Demonstration Erosion Control Monitoring Sites 1999 Evaluation. Submitted to the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS, 156 pp., October.
53. Watson, C.C and B.P. Bledsoe. 1999. Demonstration Erosion Control Monitoring Sites 1998 Evaluation. Submitted to the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS, 157 pp., June.
54. Watson, C.C., B.P. Bledsoe, and P.B. Kozinski. 1998. Yalobusha Basin Geomorphic Assessment. Submitted to the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS, 64 pp., October.
55. Watson, C.C., C.I. Thornton, P.B. Kozinski, B.P. Bledsoe, et al. 1998. Demonstration Erosion Control Monitoring Sites 1997 Evaluation. Submitted to the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS, 129 pp., July.
56. Bledsoe, B. P., D. M. Haupt, L. A. Sutter, and J. E. Wuenschel. 1997. A Geographic Information System for Targeting Wetland Restoration. North Carolina Department of Environment, Health, and Natural Resources, Division of Coastal Management, 93 pp.

57. Co-author. 1997. Neuse River Nutrient Sensitive Waters Management Strategy: Concept Paper, Fiscal Analysis, Accountability Structure, and Report of Proceedings. North Carolina Department of Environment, Health, and Natural Resources, Division of Water Quality, 718 pp.
58. Co-author. 1997. Neuse River Basinwide Management Plan. North Carolina Department of Environment, Health, and Natural Resources, Division of Water Quality.

Selected Presentations

1. Presented “Stream Restoration: Building on a Checkered Past” at the Center for Integrative Conservation Research (CICR), Conservation Seminar, University of Georgia (UGA), Athens, GA, November 29, 2017.
2. Presented “Land, Water and Ecosystem Services in Georgia” at the Carl Vinson Institute of Government Environmental Policy Academy for State of GA Legislators, University of Georgia (UGA), Athens, GA, December 3, 2016.
3. Presented “Water Infrastructure and Public Health” at the College of Public Health (CPH) Seminar, University of Georgia (UGA), Athens, GA, August 26, 2016.
4. Presented “Bledsoe Research Overview” at the River Georgia Sea Grant, University of Georgia (UGA), Athens, GA, March 4, 2016.
5. Presented “Bledsoe Research Overview” at the River Skidaway Institute of Oceanography, Department of Marine Sciences, University of Georgia (UGA), Athens, GA, March 3, 2016.
6. Presented “Bledsoe Research Overview” at the River Basin Center (RBC) Wednesday Symposium, University of Georgia (UGA), Athens, GA, February 17, 2016.
7. Invited as O. T. Hayward Distinguished Speaker, Baylor University, Waco, TX. Two invited presentations planned on urban streams and fluvial geomorphology, to be presented on April 8 and 9, 2015.
8. Delivered keynote address entitled “Addressing Key Uncertainties in Stream Restoration Projects” at EcoStream 2014 – Stream Ecology and Restoration Conference, North Carolina State University, Charlotte, NC, November 17-20, 2014. Presented ideas for restoring bio-geochemical function in stream restoration projects.
9. Taught (with Dr. E. Wohl) 3-day short course co-hosted by the Colorado Riparian Association (CRA) and Colorado Association of Stormwater and Floodplain Managers (CASFM) “Applied Fluvial Geomorphology for an Urbanizing World,” Sylvan Dale Guest Ranch, Loveland, CO, November 13-15, 2014. The course focused on applying the concepts and principles of fluvial geomorphology to develop an understanding of approaches and methods for using geomorphology in stream restoration.
10. Invited presentation for the “Poudre River – A Poudre Runs Through It” program organized by the Water Center at Colorado State University, October 21, 2014.

11. Delivered keynote address entitled “Resilient and Rambunctious Floodplains” at the 25th Annual Colorado Association of Stormwater and Floodplain Managers (CASFM) Conference “25 Years Managing the Elements,” Vail, CO, October 1, 2014.
12. Presentation at the Colorado Basin Roundtable meeting, Glenwood Springs, CO, July 28, 2014.
13. Presentation at the 14th American Ecological Engineering Society Meeting “Designing for Resilience in a Changing World,” Charleston, SC, June 9-11, 2014.
14. Keynote speaker at the Colorado Association of Stormwater & Floodplain Manager (CASFM), Loveland, CO, May 8, 2014. Discussed flooding, adaptive management, and development of a new CASFM course that focuses on ecology and biology in stream restoration.
15. Presented at co-sponsored CSU River Retreat at Tamasag Retreat Center, Bellevue, CO, February 22, 2014.
16. Presentation on flood risks in Fountain Creek during a public meeting, Manitou Springs, CO, January 8, 2014.
17. Presentation (co-authors B. Fox, M. Kondratieff, and C. Myrick) entitled “Eco-Hydraulic Evaluation of Whitewater Parks as Fish Passage Barriers” at the International Conference on Engineering and Ecohydrology for Fish Passage, Oregon State University, Corvallis, OR, June 25-27, 2013.
18. Presented “Let’s Be Honest: Addressing Key Uncertainties in Stream Restoration Design and Decision-making” at the 2013 American Geophysical Union Hydrology Days, Colorado State University, Fort Collins, CO, March 25-27, 2013.
19. Presentation (co-authors K. Werbylo and J. Sholtes) entitled “A Consideration of Channel Morphology, Flow Regime Variability and Sediment Transport Relations in Determining Effective Discharge” at the 2013 American Geophysical Union Hydrology Days, Colorado State University, Fort Collins, CO, March 25-27, 2013.
20. Delivered keynote address entitled “Let’s Be Honest: Addressing Uncertainty in River Restoration and Decision-making” at the River Restoration Northwest (RRNW) Annual Symposium, Stevenson, WA, February 4-6, 2013.
21. Invited presentation to agency personnel from the Eagle River Watershed Council, Eagle, CO, November 7, 2012.
22. Invited presentation at the 7th Annual Sustaining Colorado Watersheds Conference – “Water 2012.” The Sustaining Colorado Watersheds Conference is a cooperative event that is presented by The Colorado Watershed Assembly, The Colorado Riparian Association, and the Colorado Foundation for Water Education, Avon, CO, October 10, 2012.
23. Invited (by the U. S. Fish and Wildlife Service) participant presentation for the Long-range Plan of San Juan River Basin Recovery Implementation Program (SJRRIP), Albuquerque, NM, January 10-12, 2012.

24. Invited to present “Effects of Bank Vegetation on Stream Processes: Field Data, CFD Modeling and Restoration Design” at the 6th Annual Sustaining Colorado Watersheds Conference, Colorado Watershed Assembly, Avon, CO, October 5, 2011.
25. Invited panelist for the CSU – School of Global Environmental Sustainability Panel – Expert Panel on extreme events, Fort Collins, CO, November 17, 2010.
26. Invited to present at the “Sediment Supply and the Upland Stream Connection” during the Episodic Streams: Imperatives for Assessment and Environmental Planning in California Workshop sponsored by the Southern California Coastal Water Research Project (SCCWRP), Santa Ana, CA, November 7-9, 2010.
27. Invited to present at the U.S. Environmental Protection Agency “Healthy Watersheds Integrated Assessments Workshop,” Estes Park, CO, November 3, 2010.
28. Invited lecturer and panelist at the “Sustaining Colorado Watersheds 2010: Learning from the Past to Protect the Future” conference, Vail, CO, October 5-6, 2010.
29. Presented invited paper entitled Model and Translating Models to Management Tools at the Hydromodification: Latest Advances and Pending Challenges Workshop. Workshop was held during the 2009 California Stormwater Quality Association (CASQA) Conference, San Diego, CA, November 1-3, 2009.
30. Taught courses, developed academic curricula, advised students, conducted research, and lectured at the Centro EULA de Chile, Universidad de Concepción in Chile in fulfillment of the Fulbright Scholar Grant, February - June 2008.
31. Presented invited presentation on Environmental Flows (Non-consumptive Needs Assessments), during the Colorado Basin Roundtables in Glenwood Springs, Colorado, on December 17, 2007.
32. Presented invited paper entitled Regional Variability of Stream Responses to Urbanization: Implications for Risk-based Assessments, at the American Geophysical Union (AGU) Fall Meeting, San Francisco, California, December 12-14, 2007.
33. David, G.C., B.P. Bledsoe, D.M. Merritt, and E. Wohl. 2007. Poster: Effects of Snow-making, Grading, and Timber Harvest on Stream Channel Morphology in the White River National Forest, Colorado. Boulder Climate Workshop, Boulder, CO.
34. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2007. Reconsidering Nitrate Uptake Experiments in Streams. 24th Annual American Geophysical Union Hydrology Days, Colorado State University, Fort Collins, CO.
35. Baker, D.W., J. Mueller Price, and B.P. Bledsoe. 2007. The Influence of Stream Geomorphic Complexity on Hyporheic Flow Processes. 24th Annual American Geophysical Union Hydrology Days, Colorado State University, Fort Collins, CO.
36. Baker, D.W., B.P. Bledsoe, C.M. Albano, and N.L. Poff. 2007. Ecohydraulic Effects of Flow Extraction in Rocky Mountain Streams. Poster, North American Benthological Society, 55th Annual Meeting, June 3-8, Columbia, SC.

37. Apse, C., A.H. Arthington, B.P. Bledsoe, S.E. Bunn, D. Merritt, R.J. Naiman, N.L. Poff, B. Richter, K.H. Rogers, R. Tharme, and A.T. Warner. 2007. Ecological Limits of Hydrologic Alteration: An Approach for Setting Regional Environmental Flow Standards. Special Session, North American Benthological Society, 55th Annual Meeting, June 3-8, Columbia, SC.
38. Mueller Price, J., D.W. Baker, and B.P. Bledsoe. 2007. Variability in Nitrate Uptake and Geomorphic Complexity in Two Segments of an Urban Stream. Poster, North American Benthological Society, 55th Annual Meeting, June 3-8, Columbia, SC.
39. Pyne, M.I., N.L. Poff, B.P. Bledsoe, and A.T. Herlihy. 2007. Traits Versus Taxonomy: Community Composition along Environmental Gradients in Streams. Poster, North American Benthological Society, 55th Annual Meeting, June 3-8, Columbia, SC.
40. Bledsoe, B.P. 2006. Invited Keynote Speaker: Innovations in Urban Development. Invited Keynote Speaker at the Cochrane Low Impact Development Conference, sponsored by the Cochrane Environmental Action Committee (CEAC), Cochrane, Alberta, Canada, October 18-20.
41. Invited Panelist / Speaker at The Nature Conservancy's International Environmental Flows Workshop in Half Moon Bay, CA, August 6-9, 2006.
42. Invited Speaker at the NSF-funded Wingspread Workshop on Urban Water: Cities of the Future: Creating Blue Water in Green Cities, in Racine, WI, July 12-14, 2006.
43. Bledsoe, B.P. 2005. Risk-Based Channel Stability Analysis for Urbanizing Watersheds. Invited Presentation to the California Stormwater Quality Association 2005 Conference, Ontario, CA, October 3-5.
44. Bledsoe, B.P. and N.L. Poff. 2005. Hydrogeomorphic Classification and Functional Composition of Benthic Communities in the Pacific Northwest Mountains. Joint Assembly of the American Geophysical Union and North American Benthological Society, New Orleans, LA, May 23-27.
45. Cuhaciyan, C.O., B.P. Bledsoe, J.D. Olden, and N.L. Poff. 2005. Hydrogeomorphic Classification of Benthic Macroinvertebrate Assemblages in the Pacific Northwest Mountains. Joint Assembly of the American Geophysical Union and North American Benthological Society, New Orleans, LA, May 23-27.
46. Holburn, E.R., C.O. Cuhaciyan, B.P. Bledsoe, and N.L. Poff. 2005. Explanatory Power of Multi-scale Physical Descriptors in Modeling Benthic Indices Across Nested Ecoregions of the Pacific Northwest. Joint Assembly of the American Geophysical Union and North American Benthological Society, New Orleans, LA, May 23-27.
47. Hurst, B.E., B.P. Bledsoe, C.M. Albano, and N.L. Poff. 2005. Conditional Probability Approach for Assessing Fine Sediment Impacts on Aquatic Insects. Joint Assembly of the American Geophysical Union and North American Benthological Society, New Orleans, LA, May 23-27.

48. Albano, C.M., B. E. Hurst, N.L. Poff, and B.P. Bledsoe. 2005. The independent and interactive effects of reduced streamflow and fine sediment deposition on macroinvertebrate community structure and function. Joint Assembly of the American Geophysical Union and North American Benthological Society, New Orleans, LA, May 23-27.
49. Olson, K.D., B.P. Bledsoe, and C.O. Cuhaciyan. 2005. An Adaptive GIS Algorithm for Neighborhood Analysis of Hydrologic Networks, presented at the 18th annual GIS in the Rockies Conference, Denver, Colorado. Poster Award, 1st Place.
50. Meyer, J. and B.P. Bledsoe. 2005. A River Restoration Case Study: Three Forks of the Little Snake River, Colorado. 25th Annual American Geophysical Union Hydrology Days, Colorado State University, Fort Collins, CO.
51. Olson, K.D., C.O. Cuhaciyan, and B.P. Bledsoe. 2005. Mapping Stream Habitat Heterogeneity Using a Flexible Neighborhood Analysis Algorithm. 25th Annual American Geophysical Union Hydrology Days, Colorado State University, Fort Collins, CO.
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