

## TERRI S. HOGUE, PHD

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Dean, Earth and Society Programs  
Professor, Civil & Environmental Engineering  
Colorado School of Mines  
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thogue@mines.edu

### **RESEARCH INTERESTS**

Urbanization and sustainability, catchment response to wildfire and climate variability, hydrologic modeling, development of decision support tools and remote sensing products.

### **EXPERIENCE**

#### **Colorado School of Mines**

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| • Dean, Earth and Society Programs   | <b>Golden, CO</b><br>10/2020-present |
| • Interim Dean, Earth and Society Programs                                     | 7/2020-9/2020                        |
| • CEE Department Head  | 1/2018-6/2020                        |
| • Professor, CEE   | 7/2015-present                       |
| • Director, Hydrologic Science and Engineering Program                         | 10/2014-12/2017                      |
| • Director, WE <sup>2</sup> ST (Water-Energy Education Science and Technology) | 4/2014-present                       |
| • Associate Professor, CEE   | 7/2012-6/2015                        |
| • Vice Chair, CEE Department   | 7/2012-8/2014                        |

#### **University of California, Los Angeles**

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|------------------------------------|---|
| • Adjunct Associate Professor, CEE | <b>Los Angeles, CA</b><br>7/2012-6/2015 |
| • Associate Professor, CEE         | 7/2009-6/2012                           |
| • Assistant Professor, CEE         | 7/2003-6/2009                           |

#### **University of Arizona**

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| • Graduate Research Assistant, University of Arizona | <b>Tucson, AZ</b><br>8/1995-5/2003 |
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### **EDUCATION**

Doctor of Philosophy	Hydrology and Water Resources, University of Arizona, Tucson, AZ, 2003.
Master of Science	Hydrology and Water Resources, University of Arizona Tucson, AZ, 1998.
Bachelor of Science	Geology, University of Wisconsin-Eau Claire, WI, 1995.

### **AWARDS AND HONORS**

- American Meteorological Society (AMS) 2019 Robert E. Horton Lecturer in Hydrology, Jan. 2020
- Kevin J. Neese Award, Groundwater Resources Association of California, December 2018
- Selected for Harvard Management Development Program (MDP), June 2018
- Speaker at "Hazards on the Hill" Event, U.S. Senate, September 2011
- AMS Journal of Hydrometeorology Editor's Award, 2011
- NSF Faculty Early Career Development (CAREER) Award, 2009
- UCLA Northrop Grumman Excellence in Teaching Award, 2008
- UCLA-ASCE Professor of the Year 2007, 2004
- AMS Science and Policy Colloquium Fellowship, 2002
- NASA Earth Observing System (EOS) Graduate Fellowship, 2001-2002
- HWR Award of Excellence & Certificate of Appreciation, University of Arizona, 2002
- Salt River Project Doctoral Fellowship in Surface Water Hydrology, 1999-2001
- El Dia del Agua Speaker Award, Univ. of Arizona, 2000
- National Science Foundation Fellowship Trainee Award, 1998-1999
- Arizona Hydrological Society Scholarship Award, 1998
- NASA Space Grant Graduate Scholarship, 1996-1998
- National Science Foundation Fellowship Trainee Award, 1995-1996

## **ADVISEE AWARDS**

- AWRA 2018 Annual Conference, Best Student Presentation (Ryan Gilliom, Nov. 2018)
- National Association of Geoscience Teachers (NAGT) Outstanding TA Award (Kyle Blount, 2018)
- AGU Outstanding Student Paper Award (Kimberly Manago, Dec. 2016)
- NSF Graduate Research Fellowship (Chelsea Panos, Fall 2016)
- NSF Graduate Research Fellowship (Kim Slinski, Fall, 2015)
- AGU Outstanding Student Paper Award (Kimberly Manago, Dec. 2014)
- AGU Outstanding Student Paper Award (Paul Micheletty, Dec. 2013)
- IAHS Early Career Scientist Best Paper Award (Pouya Vahmani, July 2013)
- NSF Graduate Research Fellowship (Bryant Reyes, Fall 2012)
- NASA Earth System Science (ESS) Fellowship (Pouya Vahmani, Fall 2012)
- NASA Earth System Science (ESS) Fellowship (Caroline Mini, Fall 2011)
- NSF GK-12 Graduate Fellowship (Sonya Lopez, Fall 2011)
- SCAS Annual Meeting Best Oral Presentation Award (Alicia Kinoshita, Spring 2010)
- NSF Graduate Research Fellowship (Sonya Lopez), Fall 2008)
- NSF GK-12 Graduate Fellowship (Helen Jung, Fall 2008)
- NASA Earth System Science (ESS) Fellowship (Jongyoun Kim, Fall 2007)

## **PROFESSIONAL SERVICE ACTIVITIES**

- AMS Hydrologic Research Awards (HRA) Committee, starting Jan. 2022 (3-year term)
- AGU Hydrology Section Awards Task Force, March 2021-present
- AGU Bowie Medal Selection Committee, June 2018-Dec. 2021
- Colorado School of Mines, Department Head Council, Chair, August 2019-June 2020
- Colorado School of Mines, Department Head Council, Vice-Chair, August 2018-July 2019
- National Academies, Member Board on Atmospheric Sciences and Climate, Oct. 2013-Sept. 2019
- AGU Water Resources Research (WRR) Editorial Board, April 2017-April 2018
- Colorado School of Mines Leadership Institute Participant, March-June 2017
- Colorado School of Mines Board of Trustee Faculty Rep. (elected), Jan. 2017-Dec. 2018
- National Academies, Decadal Survey Panel, May 2016-Dec. 2017
- AGU, Hydrology Section Secretary, Jan. 2013-Dec. 2016
- National Academies, BASC Member, October 2013-December 2019
- AGU Council Task Force on Science Trends, April 2014-August 2015
- AGU Surface Water Committee Chair, 2010-2012
- AGU Surface Water Committee Deputy Chair, 2007-2009
- CUAHSI Faculty Representative, 2006-2011
- Model Parameter Estimation Experiment (MOPEX) Steering Committee Member, 2004-2009
- National Conference or Session Convener:
  - CUAHSI Annual Meeting, July 2014
  - AGU Spring Program Committee (Meeting of the Americas), May 2013
  - AGU Fall National Meeting Session Convener, 2006, 2007, 2008, 2010, 2011, 2012, 2015, 2016
  - AGU Spring Meeting session Convener, 2002
  - MOPEX 3rd Annual Workshop Organizer, 2004, Paris, France.
- University Service:
  - Mines University P&T Committee, November 2016-December 2017
  - Mines Hydrologic Science and Engineering Program Director, August 2014-present
  - Mines CEE Undergraduate Vice Chair, Undergraduate Committee Chair, 2012-present, CEE ABET representative
  - UCLA HSSEAS Space Planning Committee, 2005-2009, HSSEAS Annual Research Review Organizational Committee, 2004-2005
  - UCLA CEE Courses and Curriculum Committee, 2006-2007, Awards Committee, 2005-2006, Space Committee/Chair, 2009-2011, Planning Committee, 2011-2012, Merit Increase Committee Chair, 2011-2012, ABET Committee, 2011-2012
  - UCLA IoES Environmental Science Undergraduate Major Advisory Committee, 2006-2012
- Advisory Roles:
  - Faculty Mentor, UC LEADS (Leadership Excellence through Advanced Degrees)

- Undergraduate Research Program, 2004-2012
- Faculty Advisor, UCLA Society for Women Engineers, Fall 2007-2009
- Faculty Advisor, UCLA ASCE Student Chapter, Fall 2008-2011
- Manuscript Reviewer:  
Water Resources Research, Journal of Hydrometeorology, Journal of Hydrology, Journal of Geophysical Research-Atmospheres, Bulletin of the American Meteorological Society (BAMS), Vadose Zone Journal, Journal of American Water Resources Association, Advances in Water Resources, Environmental Modeling and Software, Hydrological Processes
- Proposal Reviewer and Panel Member:  
NSF, NASA, NOAA
- National Academies Review:  
Land Conservation Corporation, Program review and report (2015); National Stormwater Report (2015).
- Society Member:  
American Geophysical Union (AGU), American Meteorological Society (AMS), American Water Resources Association (AWRA), American Society of Civil Engineers (ASCE), Geological Society of American (GSA), Chi Epsilon Engineering Honor Society

## **TEACHING EXPERIENCE**

### **Colorado School of Mines**

Courses Developed and Taught:

- Hydrology and Water Resources Engineering (CEEN 381; undergraduate core)
- WE<sup>2</sup>ST 2-semester seminar series (CEEN 598B and CEE598C; graduate elective)
- Watershed Systems Modeling (CEEN 581; graduate elective)
- Mountain Snow Processes and Ecohydrologic Interactions (CEEN598A, graduate seminar)
- Hydrology and Water Resources Laboratory (CEEN 482, required undergraduate lab)

### **University of California, Los Angeles**

Courses Developed and Taught:

- Introduction to Water Resources Engineering (C&EE 151, undergraduate required)
- Hydrologic Analysis and Design (C&EE 157L, undergraduate lab required for hydro emphasis)
- Hydrology of Mountain Watersheds (C&EE 157M, undergraduate elective)
- Surface Water Hydrology (C&EE 250A, graduate required)
- Rainfall-Runoff Modeling (C&EE 251A, graduate elective)
- Undergraduate Fiat Lux Seminar, Much Ado about Water (C&EE 15, undergraduate)

### **University of Arizona**

Teaching Assistant or Instructor:

- Principles of Hydrology (HWR 250), Teaching Assistant (1999, 2000)
- Surface Water Field Camp (HWR 414/514) Teaching Assistant (1999, 2000)
- Principles of Hydrology (HWR 250), Lecturer (2000, 2001)
- Surface Water Field Camp (HWR 414/514) Instructor (2001, 2002)

## **ADVISEES**

### **Post-graduate**

1. Dr. Janet Barco-Mugg, 2007-2010, Assistant Professor, University of Medellin, Columbia
2. Dr. Jongyoun Kim, 2009-2012, Research Faculty, UCLA
3. Dr. Alicia Kinoshita, 2012-2014, Associate Professor, San Diego State University
4. Dr. Laura Read, 2015-2016, Research Scientist, National Center for Atmospheric Research
5. Dr. Colin Bell, 2016-2019, Research Engineer, City and County of Denver, Colorado
6. Dr. Christopher Ruybal, 2018-2019, Fulbright Scholar, University of Concepcion, Chile
7. Dr. Jordy Wolfand, 2019, Assistant Professor, University of Portland, Oregon
8. Dr. Nasrin Alamdari, 2018-2020, Assistant Professor, Florida State University, Tallahassee, FL
9. Dr. Reza Abdi, 2019-2020, Research Scientist, NCAR
10. Dr. Katie Spahr, May 2020-May 2021, Water Research Foundation
11. Dr. Elizabeth Gallo, September 2020-June 2021, Geosyntec
12. Dr. Ashley Rust, 2018-July 2021, Water Quality Specialist, Colorado Parks and Wildlife, Denver, CO.
13. Dr. Anneliese Sytsma, 2021-present
14. Dr. Katie Schneider, 2022-present

## **Ph.D.**

### *Graduated:*

1. Helen Jung, June 2009: Associate Dean and Associate Professor, Civil and Environmental Engineering Dept., California Baptist University, Riverside, CA
2. Jongyoun Kim, Sept. 2009: Research Scientist, UCLA, Los Angeles, CA
3. Kevin He, June 2010: California Dept, of Water Resources, Sacramento, CA
4. Megan Burke, March 2011: Staff Engineer, RESPEC Consulting and Services, Rapid City, SD
5. Sonya Lopez, June 2012: Assistant Professor, California State University, Los Angeles, CA
6. Alicia Kinoshita, June 2012: Assistant Professor, San Diego State University, San Diego, CA
7. Caroline Mini, Dec. 2013: Polyconseil Consulting, Paris, France.
8. Barik Muhammad, June 2014: Associate Scientist, USRA at NASA/MSFC, Huntsville, AL
9. Pouya Vahmani, August, 2014: Research Scientist, Berkeley National Laboratories
10. Kyle Knipper, December, 2016: USDA Post-doctoral Fellow, Beltsville, MD
11. Kim Manago, August 2017: Engineer, Water Systems Optimization, San Francisco, CA
12. Melissa Valentin, August 2017: Consultant, 2100 Solutions, Denver, CO
13. Ashley Rust, December 2017: Post-doctoral Scholar, CSM, Golden, CO
14. Christopher Ruybal (co-advised), May 2018: Fulbright Scholar, University Concepcion, Chile
15. Kimberly Slinski (co-advised), May 2018: NASA Research Scientist, UMD, Washington, DC
16. Jordy Wolfand (co-advised; Stanford PhD), Dec. 2018: Post-doctoral Scholar, CSM, Golden, CO
17. Bryant Reyes (co-advised), Aug. 2019: Risk Management Systems, San Francisco, CA
18. Chelsea Panos, May 2020: Teaching Assistant Professor, Colorado School of Mines, Golden, CO
19. Katie Spahr, May 2020: Post-doctoral Scholar, Colorado School of Mines, Golden, CO
20. Ryan Gilliom (co-advised), May 2020, Staff Scientist, LRE Water, Denver, CO
21. Elizabeth Gallo, August 2020, Post-doctoral Scholar, Colorado School of Mines, Golden, CO
22. William (Kyle) Blount, August 2020, Post-doctoral Scholar, Washington State Univ., Vancouver, WA
23. Samuel Saxe, May 2021, Research Scientist, USGS, Lakewood, CO
24. Jake Kurzweil, August 2021, Water Resource Scientist, Mountain Studies Institute, Durango, CO
25. Katie Schneider, Dec. 2021, Post-doctoral Scholar, Colorado School of Mines, Golden, CO

### *Current:*

1. Natalie Phares (Fall 2019-present)

## **M.S. Thesis**

### *Graduated:*

1. Kristina Cydzik, Sept. 2006
2. Michael Weil, Aug. 2009
3. Chris Wessel, Dec. 2009
4. David Moering, Dec. 2011
5. Brandon Hale, Dec. 2012
6. Audrey Lee, Dec. 2012
7. Andrew Beck, May 2014
8. Chris Carandang, May 2015
9. Katie Radavich, Summer 2015
10. Samuel Saxe, Fall 2013-Jan. 2016
11. Ryan Logan, Fall 2014-May 2016
12. Ella Walker, Fall 2014-May 2016
13. Skylar Zilliox, Fall 2014-May 2016 (co-advised w/ J. Rolston)
14. Ryan Edgeley, Fall 2014-May 2016
15. Abbye Neal, Fall 2015-May 2017
16. Elizabeth Gallo, Fall 2015-May 2017
17. Flannery Dolan, Fall 2016-May 2018
18. Jacob Brown, Fall 2016-August 2018
19. Victoria Hennon, Fall 2019-May 2021
20. Kate Boden, Fall 2020-present
21. Daniel Philippus, Fall 2021-present

22. Katy Smith, Fall 2021-present

### **M.S. Non-Thesis**

#### *Graduated:*

1. Nicholas Koniski, June 2005
2. Helen Jung, Fall June 2005
3. Jongyoun Kim, June 2005
4. Reena Patel, June 2006
5. Kevin He, June 2006
6. Miluska Propersi, June 2007
7. Dong Hee, June 2007
8. Megan Burke, June 2008
9. Adrienne Federick, June 2008
10. Sonya Lopez, June 2008
11. Alicia Kinoshita, June 2009
12. Jeff Roubos, June 2010
13. Navid Ali Tabrizi, June 2011
14. Laurie Huning, June 2011
15. Zhao Zhang, June 2011
16. Forest Pfeiffer, June 2011
17. Kim Manago, June 2011
18. Shu-wen Liu, June 2011
19. Margaret Garcia, June 2012
20. Bryant Reyes, June 2012
21. Rachel Hoff, June 2012
22. Chanh Hunyh, June 2012
23. Kyle Scholz, June 2012
24. Tristan Acob, May 2014
25. Paul Micheletty, May 2014
26. Colin Berry, Fall 2013-Dec 2014
27. Skyler Bruno, Fall 2013-May 2015
28. Peter Kauss, Fall 2013-May 2015
29. Jessie Shirey, Spring 2014-May 2016
30. Adam Backsmeier, Fall 2015-Dec 2016
31. Alan Tipton, Spring 2016-May 2017
32. Steven Reeves, Fall 2019-Dec 2020

### **Undergraduate Researchers**

- Eileen Aghnami, Elena Garcia (2003-2004)
- Eileen Aghnami, Kristina Cydzik, Ed Han, Shelby Shirlock (2004-2005)
- Andrew Wai, Jeremy Pagan, Sonya Lopez, Victoria Curto (2005-2006)
- Jeremy Pagan, Gregory Tseng, Alicia Kinoshita, Victoria Curto, Sonya Lopez, Bridget Navarro, Joaquin Soto, Adam Wyner, Matt Olson (2006-2007)
- Bridget Navarro, Joaquin Soto, Hossein Nasser, Michael Weil, Rashmika Satyarathi, Rashmi Sahai, Lauren Seabury, Stephanie Gunawan, Paul Kirschner, Lauren Tomita (2007-2008)
- Stephanie Gunawan, Paul Kirschner, Kendra Van Buren, David Moering, Lauren Seabury (2008-2009)
- Sharon Liu, Andrea Brown, Alan Lewis, Kim Manago, Savoth Hy, Forest Pfeiffer (2009-2010)
- Flora Zepeda, Chrissy Humphreys, Brandon Hale, Kristine Gali, Audrey Lee, Carolyn Chou (2010-2011)
- Flora Zepeda, Karen Chu, Nathan Griffin, Sara Miller, Paige Russell, Laura McNerney (2011-2012)
- David Steeger (2012-2013)
- Aspen Anderson, Ryan Logan (2013-2014)
- Aspen Anderson, Kylee Brown, Chelsea Tarbell (ERC REU), Chelsea Panos, Flannery Dolan (2014-2015)
- Aspen Anderson, Micaela Pedraza, Chelsea Panos, Flannery Dolan, (2015-2016)

- Micaela Pedraza, Stephanie Panza, Emiley Lopez, Aspen Anderson (2016-2017)
- Emiley Lopez, Aspen Anderson, Wenli Dickinson (2017-2018)
- Wenli Dickinson, Adam Beziou, McKenna Farmer (ReNUWIt REU) (2018-2019)
- Daniel Philippus, Adam Beziou, Chantel Flukiger, Jonathan Kastner, Amelia Napper (ReNUWIt REU) (2019-2020)
- Daniel Philippus, Adam Beziou, Jonathan Kastner, (2020-2021)

## **REFEREED JOURNAL PUBLICATIONS**

### ***In review***

1. Rust, A.J., S. Roberts, M. Eskelson, J. Randell; **T.S. Hogue**, 2021: Forest fire mobilization and uptake of metals by biota temporarily exacerbates impacts of legacy mining, *Science of the Total Environment*
2. Saxe, S., W. Farmer, G. Senay, M. Friedrichs, **T.S. Hogue**, 2021: Continental-scale mapping of 30-meter evapotranspiration using machine learning, *Journal of Hydrology*.
3. Hall, N., A. Rust, **T.S. Hogue**, K. Singha, 2021: Analysis of watershed parameters controlling turbidity following the West Fork Complex Fire, *Journal of Hydrology*.
4. Alamdari, N., and **T.S. Hogue**, 2021: Evaluating the Effects of Stormwater Control Measures on Percolation in Semi-Arid Watersheds Using a High-Resolution Model, *JAWRA*.
5. Saxe, S., W. Farmer, **T.S. Hogue** and J.S. Driscoll, 2020: Estimating Groundwater from GRACE: Why Model Selection Matters, *Water Resources Research*

### ***Notes:***

*student author at the time of submission*

*\*\* designates undergraduate author*

### ***Published (or in press)***

1. Abdi, R., A. Rust, J.M. Wolfand, K. Taniguchi-Quan, K. Irving, D. Philippus\*\*, E.D. Stein, and **T.S. Hogue**, 2021: Thermal suitability of the Los Angeles River for cold water fish migration under restoration alternatives, *Frontiers in Water*, <https://doi.org/10.3389/fenvs.2021.749085>
2. Wolfand, J., A. Sytsma, H. Victoria, E. Stein, and **T.S. Hogue**, 2021: Dilution and pollution: assessing the impacts of water reuse and flow reduction on water quality in the Los Angeles River Basin, *Environmental Science and Technology (accepted with minor revisions)*
3. Schneider, K.E., and **T.S. Hogue**, 2021: Calibration of a hydrologic model in data-scarce Alaska using satellite and other gridded products Corresponding, *Journal of Hydrology: Regional Studies*, <https://doi.org/10.1016/j.ejrh.2021.100979>
4. Collar, N.M., S. Saxe, A.J. Rust, and **T.S. Hogue**, 2021: A CONUS-scale study of wildfire and evapotranspiration: spatial and temporal response and controlling factors, *Journal of Hydrology*, Volume 603, Part D, 127162, <https://doi.org/10.1016/j.jhydrol.2021.127162>
5. Philippus, D.\*\* , J.M Wolfand, R. Abdi, and **T.S. Hogue**, 2021: Raspy-Cal: A Genetic Algorithm-Based Automatic Calibration Tool for HEC-RAS Hydraulic Models, *Water*, <https://doi.org/10.3390/w13213061>
6. Gallo, E.M., K. Spahr, E. Grubert, and **T.S. Hogue**, 2021: Improving the Decision-making Process for Stormwater Management Using Life Cycle Costs and a Benefit Analysis, *ASCE Journal of Sustainable Water in the Built Environment*, <https://orcid.org/0000-0002-8042-4860>
7. Abdi, R., A. Rust, and **T.S. Hogue**, 2021: Development of a Multilayer Deep Neural Network Model for Predicting Hourly River Water Temperature from Meteorological Data, *Frontiers in Environmental Science: Water and Wastewater Management*, <https://doi.org/10.3389/fenvs.2021.738322>
8. Alamdari, N. and **T.S. Hogue**, 2021: Assessing the effects of climate change on urban watersheds: a review and call for future research, *Environmental Reviews*, <https://doi.org/10.1139/er-2021-0003>
9. Spahr, K., J.M. Smith; J.E. McCray; **T.S. Hogue**, 2021: Reading the Green Landscape: Public Attitudes toward Green Stormwater Infrastructure and the Perceived Nonmonetary Value of Its Co-Benefits in Three US Cities, *ASCE Journal of Sustainable Water in the Built Environment*, 7(4): 04021017
10. Blount, K., R. Abdi, C. Panos, N.K. Ajami, and **T.S. Hogue**, 2021: Building to conserve: Quantifying the outdoor water savings of residential redevelopment in Denver, Colorado: *Landscape and Urban Planning*, <https://doi.org/10.1016/j.landurbplan.2021.104178>
11. Kurzweil, J., R. Abdi, K. Metlen, and **T.S. Hogue**, 2021: Surface water runoff response to forest management: Low-intensity forest restoration does not increase surface water yields, *Forest Ecology and Management*, <https://doi.org/10.1016/j.foreco.2021.119387>

12. Abdi, R., J.B. Roger, A. Rust; J.M. Wolfand, D. Philippus\*\*, K. Taniguchi-Quan, K. Irving; E.D. Stein, and **T.S. Hogue**, 2021: Evaluating the thermal impact of substrate temperature on ecological restoration in shallow urban rivers, *Environmental Management*, DOI:10.1016/j.jenvman.2021.112560.
13. Spahr, K., C.D. Bell; E.M. Gallo; J.E. McCray; **T.S. Hogue**, 2021: Incorporating a multiple benefit analysis into a stormwater decision support tool at planning level, 2021: *ASCE Journal of Sustainable Water in the Built Environment*, <https://orcid.org/0000-0002-4974-3134>.
14. Kurzweil, J., R. Abdi, L. Stevens, and **T.S. Hogue**, 2021: Utilization of Ecological Indicators to Quantify Distribution and Conservation Status of Mt. Tamalpais Springs, Marin County, California, *Journal of Ecological Indicators*, <https://doi.org/10.1016/j.ecolind.2021.107544>
15. Panos, C., J. Wolfand, **T.S. Hogue**, 2021: Assessing resilience of a dual drainage urban system to redevelopment and climate change, *Journal of Hydrology*, <https://doi.org/10.1016/j.jhydrol.2021.126101>
16. Saxe, S. W. Farmer, J. Driscoll, and **T.S. Hogue**, 2020: Implications of Model Selection: A Comparison of Publicly Available, CONUS-Extent Hydrologic Component Estimates, *HESS*, <https://doi.org/10.5194/hess-2020-216>
17. Blount, K., J.M. Wolfand, C.D. Bell, N.K. Ajami, and **T.S. Hogue**, 2020: Satellites to sprinklers: Assessing the role of climate and land cover change on patterns of urban outdoor water use, *Water Resources Research*, <https://doi.org/10.1029/2020WR027587>
18. Shojaeizadeh, A., M. Geza and **T.S. Hogue**, 2020: GIP-SWMM: A New Green Infrastructure Placement Tool Coupled with SWMM, *Journal of Environmental Management*, doi:10.1016/j.jenvman.2020.111409
19. Gilliom, R., C.D. Bell, **T.S. Hogue**, and J.E. McCray, 2020: Adequacy of linear models for estimating stormwater Best Management Practice treatment performance, *Journal of Sustainable Water in the Built Environment*, 6(4), 04020016
20. Gallo, E.M., C.D. Bell, C. Panos, S. Smith and **T.S. Hogue**, 2020: Investigating Tradeoffs of Green to Grey Stormwater Infrastructure Using a Planning-Level Decision Support Tool, *Water*, <https://doi.org/10.3390/w12072005>
21. Sytsma, A., C.D. Bell, W. Eisenstein, **T.S. Hogue**, G.M. Kondolf, 2020: A geospatial approach for estimating hydrological connectivity of impervious surfaces, *Journal of Hydrology*, <https://doi.org/10.1016/j.jhydrol.2020.125545>
22. Bell, Colin D., J. M. Wolfand, and **T.S. Hogue**, 2020: Regionalization of default parameters for urban stormwater quality models, *JAWRA*, <https://doi.org/10.1111/1752-1688.12878>
23. Fofoula-Georgiou, E., C. Guilloteau, P. Nguyen, A. Aghakouchak, K. Hsu, A. Busalacchi, F.J. Turk, C. Peters-Liddard, T. Oki, Q. Duan, W. Krajewski, R. Uijlenhoet, A. Barros, P. Kirstetter, W. Logan, **T. Hogue**, H. Gupta, V. Levizzani, 2020: Advancing Precipitation Estimation, Prediction, and Impact Studies, *Bulletin of the American Meteorological Society: Meeting Summaries*, doi:10.1175/BAMS-D-20-0014.1
24. Panos, C., J. Wolfand, and **T.S. Hogue**, 2020: SWMM Sensitivity to LID Siting and Routing Parameters: Implications for Stormwater Regulatory Compliance, *JAWRA*, <https://doi.org/10.1111/1752-1688.12867>
25. Madsen, T., K. J. Franz, **T.S. Hogue**, 2020: Evaluation of a distributed streamflow forecast model at multiple watershed scales, *Water*, 12, 1279; doi:10.3390/w12051279
26. Bell, C.D., J.M. Wolfand, C.L. Panos, A.S. Bhaskar, R.L. Gilliom, **T.S. Hogue**, K.G. Hopkins, and A.J. Jefferson, 2019: Stormwater control impacts on runoff volume and peak flow: A meta-analysis of watershed modeling studies, *Hydrological Processes*, <https://doi.org/10.1002/hyp.13784>.
27. Boehm, A., C. Bell, N. Fitzgerald, E. Gallo, C.P. Higgins, **T.S. Hogue**, R.G. Luthy, A. Portman, B.A. Ulrich, J. Wolfand, 2020: Biochar-augmented biofilters to improve pollutant removal from stormwater – Can they improve receiving water quality? *Environmental Science: Water Research and Technology* <https://doi.org/10.1039/D0EW00027B>
28. Reyes, B., **T.S. Hogue**, and R. Maxwell, 2020: Urban irrigation in the modeling of a semi-arid urban environment: Ballona Creek watershed, Los Angeles, California, *Journal of Hydrologic Sciences*. <https://doi.org/10.1080/02626667.2020.1751846>
29. Spahr, K., C. Bell, J. McCray, and **T.S. Hogue**, 2020: Greening up stormwater infrastructure: measuring vegetation to establish context and promote co-benefits in a diverse set of US cities, *Urban Forestry & Urban Greening*, <https://doi.org/10.1016/j.ufug.2019.126548>
30. E.M. Gallo, C. Bell, K. Mika, M. Gold, and **T.S. Hogue**, 2020: Stormwater management options and decision-making in the urbanized watersheds of Los Angeles, CA. *ASCE Journal of Sustainable Water in the Built Environment*, <https://doi.org/10.1061/JSWBAY.0000905>

31. Schneider, K., A. Martin and **T.S. Hogue**, 2020: Evaluation of an NSF Research Experience for Teachers (RET) Program for STEM Development: Water-Energy Education for the Next Generation (WE<sup>2</sup>NG), *Advances in Engineering Education*, 8(2), 1-26.
32. Blount, W.K., C. Ruybal, K. Franz and **T.S. Hogue**, 2019: Increased water yield and altered water partitioning follow wildfire in a forested catchment in the western U.S., *Ecohydrology*, <https://doi.org/10.1002/eco.2170>
33. Gilliom, R.L., C.D. Bell, **T.S. Hogue**, J.E. McCray, 2019: A rainwater harvesting accounting tool for water supply availability in Colorado, *Water*, 11, 2205; doi:10.3390/w11112205
34. Shojaeizadeh, A., M. Geza, J. McCray and **T.S. Hogue**, 2019: Site-scale integrated Decision Support Tool (i-DSTss) for stormwater management, *Water*, 11, 2022; doi:10.3390/w11102022
35. Rust, A.J., J. Randell, A. Todd, and **T.S. Hogue**, 2019: Wildfire Impacts on Water Quality, Insect, and Trout Populations in the Upper Rio Grande, *Forest Ecology and Management*, <https://doi.org/10.1016/j.foreco.2019.117636>
36. Rust, A.J., S. Saxe, J. McCray, C. C. Rhoades, and **T.S. Hogue**, 2019: Evaluating the Factors Responsible for Post-Fire Water Quality Response in Forests of the Western USA, *International Journal of Wildland Fire*, <https://doi.org/10.1071/WF18191>
37. Slinski, K., **Hogue, T.S.** and McCray, J.E., 2019: Active-Passive Surface Water Classification: A New Method for High Resolution Monitoring of Surface Water Dynamics, *Geophysical Research Letters*, <https://doi.org/10.1029/2019GL08256>
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Notes:

*student author at the time of submission*

*\*\* designates undergraduate author*

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23. Hartmann, H. C., Pagano, T. C., **Hogue, T. S.**, Mahani, S. and Sorooshian, S., 2000: Town Meeting Revisits Priorities in the Hydrologic Sciences, *EOS, Transactions, AGU*, 81, p. 283.
24. **Hogue, T.S.**, 2000: Fieldwork, A “Vital Gap” in Computer Based Education as Hydrology Students Get Feet Wet, Guest View, Arizona Water Resource, Water Resources Research Center, Tucson, AZ, May-June 2000.
25. **Hogue, T.S.**, and S. Sorooshian, 1999: Investigation of the National Weather Service Soil Moisture Accounting Models for Flood Prediction in the Northeast Floods of January 1996, Technical Report, HWR No. 99-030, Hydrology and Water Resources, University of Arizona.
26. Sorooshian, S. Gupta, H., and **Hogue, T.S.**, 1999: A Multi-step Automatic Calibration Scheme (MACS) for River Forecasting Models Utilizing the National Weather Service River Forecast System (NWSRFS), Technical Report, HWR No. 99-010, Hydrology and Water Resources, University of Arizona.

### **INVITED PRESENTATIONS**

1. Her Career, Her Stories. A townhall sponsored by the committee on Diversity, Inclusion and Equity, American Meteorological Society, January 14<sup>th</sup>, 2021.
2. Human-water Interactions in Urban Systems: Challenges and Opportunities in the 21<sup>st</sup> Century, Robert E. Horton Lecturer in Hydrology, American Meteorological Society, January 2020
3. Advancing tools for holistic management of water resources: Development of an integrated decision support tool (i-DST) for grey and green infrastructure implementation (Invited), American Geophysical Union Fall Meeting, Washington, D.C., December, 2018.
4. Wildfire and water: Utilizing remote sensing and in situ observations to monitor post-fire impacts on water supply in the western U.S. (Invited), American Geophysical Union Fall Meeting, Washington, D.C., December, 2018.
5. Challenges and opportunities in human-water interactions in urban centers: advancing decision-making tools for holistic management of water resources, Sixth Interagency Conference on Research in the Watersheds (ICRW), Plenary Speaker, Shepherdstown, WV, July 24, 2018
6. Post-fire Water Quality in the Western United States: Understanding and Predicting Short and Long-term Response, American Geophysical Union Fall National Meeting, December 13, 2016
7. Short and long-term recovery in burned watersheds and the impact on streamflow dynamics, Geological Society of America, September 28, 2016
8. Human-water interactions in Colorado: Evaluating the impacts of population growth, energy development and dynamic industries on water resource management, European Geophysical Union (EGU), Vienna, Austria, April, 2016
9. Understanding Drought and Regional Conservation Efforts on Urban Ecohydrology in Southern California (Invited), AGU Fall National Meeting, San Francisco, CA, December, 2015.
10. Evaluating the impact of long-term investments in water assets by industry: the industrious partnership between ConocoPhillips and Colorado School of Mines, American Water Summit, Denver, CO, October 11, 2015

11. Water and Energy at Mines, NREL visiting committee, Colorado School of Mines, Golden, CO. September 25, 2015
12. Forest and land cover change: Improving predictions of hydrologic response through advances in remote sensing, Third Workshop on Water Resources in Developing Countries: Planning and Management in Face of Hydroclimatological Extremes and Variability, International Center for Theoretical Physics, Trieste, Italy, April 2015.
13. Urbanization: Evaluating socio-hydrologic systems through integration of remote sensing, high-resolution modelling and regional water use data, Third Workshop on Water Resources in Developing Countries: Planning and Management in Face of Hydroclimatological Extremes and Variability, International Center for Theoretical Physics, Trieste, Italy, April 2015.
14. Water consumption and unconventional energy development in Colorado, Colorado Clean-tech Industries Association (CCIA), Golden, CO, March 17, 2015.
15. Integrated Stormwater Modeling in Los Angeles: Evaluation of Watershed-scale Best Management Practices and Ancillary Benefits, ReNUWIt Science Advisory Board (SAB) meeting, Berkeley, CA. January 2015.
16. Integrated Stormwater Management in Los Angeles, California: Best Management Practices and Evaluation of Ancillary Benefits, AGU Fall Annual Meeting, Session: Sustainable Water Quantity and Quality in the Built Environment, December 19, 2014.
17. Water Use in Los Angeles, California: Consumption Patterns, Ecosystem Response and Impact on Regional Water Budgets, Session: Water, Energy, and Society in Urban Systems, AGU Fall Annual Meeting, December 18, 2014.
18. Mission and Aims of the ConocoPhillips Center for a Sustainable WE<sup>2</sup>ST, GOT, Colorado School of Mines, October 28, 2014
19. Mission and Aims of the ConocoPhillips Center for a Sustainable WE<sup>2</sup>ST, PTTC, Colorado School of Mines, September 18, 2014
20. Wildfires and forest treatment impacts on water yield and quality, Fire Ecosystem Forest Management & Water Yield Symposium, Sacramento, CA, May 2, 2014.
21. President's Distinguished Lecture Series, Alumni Weekend: Water Resources and Energy Development and Production: The WE<sup>2</sup>ST Center, Golden, CO, April 24, 2014.
22. Water & Cities, Water: Systems, Science and Society Symposium, Tufts University, Boston, MA, April 11, 2014
23. Anthropogenic Disturbance and Hydrologic Behavior: Case Studies in Southern California, University of Utah, GCSC Seminar Series, Salt Lake City, UT, April 1, 2014
24. Urbanization and Wildfire: Interactions with Water Resources, Water Infrastructure Network (WIN), Denver, CO, January 14, 2014.
25. Post-Fire Hydrologic Response and Recovery: Case Studies in California and Colorado, GSA Annual Meeting, Denver, CO, October, 2013.
26. Wildfires, Hydrologic Response and Urban Fringe Risk, Heiland Seminar, Geophysics Department, Colorado School of Mines, March 28, 2013.
27. Coming out of the Silo: Training a new breed of "Geoengineers", Keynote Speaker, NSF Integrate Workshop, Colorado School of Mines, March 5, 2013.
28. Assessing Advances in Streamflow Forecasting Methods using Hindcasts and Probabilistic Verification, Symposium on Probabilistic Forecasting, American Meteorological Society, January 10, 2013
29. Investigations of Altered Hydrologic Cycles in Urban and Forest Systems, Hydrology Seminar Series, Stanford University, October 15, 2012
30. Wildfires in the Western US: Understanding and Predicting Hydrologic Response, Geology Seminar Series, University of Northern Colorado, September 14, 2012
31. An Investigation of Ballona Creek Watershed: Partitioning Native and Imported Source Contributions and their Uncertainties, Urban Wetlands Symposium, Loyola Marymount University, March 12, 2012
32. Development of High Spatial and Temporal Resolution Evapotranspiration Products Through Integration of Landsat and MODIS Land Surface Data, American Meteorological Society, 26th Conference on Hydrology, January 24, 2012.
33. Evaluating Regional Watershed Sensitivity to Climate Change: Future Runoff and Sediment Variability in Southern California, Coastal Habitat Conservation in a Changing Climate:
34. Thinking Upstream: Case Studies in Urbanization and Watershed Budgets for Ballona Creek and Santa Monica Bay, Arid Lands Institute, Woodbury College, Thinking Water Part II, Burbank, CA, Oct. 29, 2011

35. Projected Climate Change Impacts on Water Resources in the American West: Anticipating Variability, Arid Lands Institute, Woodbury College, Thinking Water Part II, Burbank, CA, Oct. 29, 2011
36. Dynamics of urban ecosystem services and their relationship to ecohydrology: Exploratory study for a Los Angeles Urban Long-Term Research Area (LA-ULTRA), SCCWRP Seminar Speaker Series, Costa Mesa, CA, Oct. 14, 2011
37. Impacts of Wildfire on Water and People, Hazards on the Hill, NSF-sponsored Presentation to Congress and Staffers, Senate Hart Building, Washington, D.C., September 7, 2011
38. Changes in Hydrologic Response and Fire Recovery, National Park Service-UCLA Climate Change Workshop, Los Angeles, CA, April 27, 2011.
39. BAER Hydrologic Modeling: Review of Watershed Models and Discussion: Bureau of Land Management BAER National Meeting, Lakewood, CO, June 7, 2011.
40. Wildfires in Southern California: Investigations on Short- and Long-term Hydrologic Response, UCLA Institute of the Environment and Sustainability (IoES) Seminar, April 19, 2011.
41. BAER Hydrologic Modeling Toolkit, Burn Area Emergency Response (BAER) Regional Meeting, Ogden, UT, Feb. 2, 2011
42. Regional Watershed Response Under Climate Variability, State of the Bay Conference, Los Angeles, CA, January, 2010
43. Wildfires in Southern California: Changing the Physical and Chemical Landscape, UCLA Extension, October, 2009.
44. Development of Satellite-based Evapotranspiration and Soil Moisture Estimates for Hydrologic Model Development and Validation, SAHRA Annual Meeting, Tucson, AZ, September, 2009.
45. Evaluating Hydro-chemical Response in Burned Watersheds in Southern California, Plant Sciences Department Seminar, University of California, Riverside, February, 2009.
46. Geochemical and Metal Transport Studies in Burned Watersheds in Southern California, Workshop on Water Quality Effect of Post-fire Runoff, Sponsored by Southern California Stormwater Monitoring Coalition (SMC) and County of San Diego, SCCWRP, Coast Mesa, CA, August 18-19, 2008
47. Improving Global Optimization of Hydrologic Models, Institute for Pure and Applied Mathematics (IPAM) Workshop on Transport Systems in Geography, Geosciences and Networks, UCLA, May 2008.
48. Post-fire Impacts on Watersheds and Water Resources, Presentation to the State Board of the California Department of Forestry and Fire Protection (CAL FIRE), Sacramento, CA, May 2008.
49. Hydrologic Tools and Products for Advancing Operational Forecast Systems, NOAA-NWS Hydrology Laboratory, Silver Spring, MD, March, 2008.
50. Southern California Wildfires: Linking the Physical and Chemical Response of Burned Watersheds, Engineering Department Seminar Series, University of California-Merced, Merced, CA, February, 2008.
51. Climate Change and the Impact on California Water Resources, Aquarium of the Pacific California and Global Climate Change Course, Long Beach, CA, October, 2007.
52. Toward Improved Understanding of Hydrologic Response in Altered Landscapes, Atmospheric and Geologic Sciences Seminar Series, Iowa State University, Ames, IA, September, 2007.
53. Improving the Understanding and Prediction of Hydrologic Processes in Altered Landscapes, CEA-CREST (NSF Center for Environmental Analysis-Centers of Research Excellence in Science and Technology), California State University, Los Angeles, January, 2007.
54. Much Ado About Water: Will the Tap Keep Flowing? Professor in the Union Talk, UCLA, November, 2005.
55. Reducing Uncertainty in Land-surface and Hydrologic Modeling, Department of Atmospheric and Oceanic Sciences Seminar Series, UCLA, March, 2005.
56. Developments in Optimization Techniques and Application to Hydrologic and Land-surface Modeling, Department of Civil and Environmental Engineering, University of Southern California, April, 2004
57. Advancements in Modeling and Tools for Hydrologic Forecasting, CEA-CREST (NSF Center for Environmental Analysis-Centers of Research Excellence in Science and Technology) and the Department of Geosciences, California State University, Los Angeles, February, 2004

### **CONFERENCE PRESENTATIONS AND PROCEEDINGS**

1. Hogue, T.S., A. Rust, K.E. Schneider. and A.C. Martin, 2019: Evolution and Insights from a 4-year NSF Research Experience for Teachers (RET) Program: Professional Development in Water-Energy Education for the Next Generation (WE<sup>2</sup>NG), AGU Fall National Meeting, December 2019

2. Slinski, K., A. McNally, C.D. Peters-Lidard, G.B. Senay, T.S. Hogue, J.E. McCray, 2019: Synthetic Aperture Radar (SAR) Applications for Rangeland Famine Early Warning Systems, AGU Fall National Meeting, December 2019
3. Wolfand, J., Colin D. Bell, D. Philippus, V. Hennon, R. Abdi, K. Taniguchi-Quan, E.D. Stein, T.S. Hogue, 2019: Will wastewater recycling impact ecology in the Los Angeles River? AGU Fall National Meeting, December 2019.
4. Ashley Rust , S. Roberts, J. Randell, and T.S. Hogue, 2019: Wildfire Impacts on Aquatic Ecosystems and the Recovery that Follows (Invited), AGU Fall National Meeting, December 2019
5. Blount, K., J. Wolfand, C.D. Bell, N.K. Ajami, and T.S. Hogue, 2019: Modeling Irrigation using Remote Sensing to Assess the Influence of Evolving Urban Dynamics on Water Demand in Denver, Colorado, AGU Fall National Meeting, December 2019
6. Kurzweil, J., T.S. Hogue, K. Metlen, 2019: Hydrologic response to pre-fire mitigation treatments in the Ashland, Oregon basin, AGU Fall National Meeting, December 2019
7. Saxe, S., W.H. Farmer, J.M. Driscoll<sup>1</sup> and T.S. Hogue, 2019: Implications of Model Selection: Inter-Comparison of Publicly-Available CONUS Extent Hydrologic Component Estimates, AGU Fall National Meeting, December 2019
8. Bell, C.D., J. Wolfand, C. Panos, A. Bhaskar, R. Gilliom, T.S. Hogue, K. Hopkins and A. Jefferson, 2019: Stormwater control impacts on urban hydrology: A meta-analysis, AGU Fall National Meeting, December 2019
9. Spahr, K., C.D. Bell, E. Grubert, E. Gallo, J.E. McCray and T.S. Hogue, 2019: Contextualizing and Communicating the Co-benefits Associated with Green Stormwater Infrastructure, AGU Fall National Meeting, December 2019
10. Gallo, E.M., C.D. Bell, A. Beziou, K. Spahr, E. Grubert and T.S. Hogue, 2019: Development of a new integrated decision support tool (i-DST) for optimizing the benefits and tradeoffs of greener to greyer stormwater infrastructure, AGU Fall National Meeting, December 2019
11. Alamdari, N., T.S. Hogue Assessing Climate Change Impacts on Urban Stormwater Control Measures in the Los Angeles Basin, AGU Fall National Meeting, December 2019
12. Sytsma, A., C.D. Bell, W. Eisenstein<sup>1</sup>, T.S. Hogue and G.M. Kondolf, 2019: An integrated approach for estimating directly connected impervious areas in ungauged basins and implications for stormwater planning, AGU Fall National Meeting, December 2019
13. Gallo, E.M, T.S. Hogue, C. Bell, 2019: Development of an integrated Decision Support Tool, CAFSM, September, 2019
14. Schneider, K. E., A.C. Martin and T.S. Hogue, Advancing K-12 STEM Education in the Water-Energy Nexus through an NSF Research Experience for Teachers (RET) program, AGU Fall National Meeting, Washington D.C. December 2018.
15. Wolfand, J., Seller, C., Bell, C.D., Cho, Y.M., Oetjen, K., Hogue, T.S., Luthy, R.G. Managing urban-use pesticides with enhanced green infrastructure on the watershed scale. AGU Fall National Meeting, Washington D.C. Oral Presentation. December 2018.
16. Blount, K., C.D. Bell, K. Spahr, and T.S. Hogue: Understanding Urban Evapotranspiration Changes Due to Redevelopment and Infill through Remote Sensing Analysis in Denver, Colorado. American Geophysical Union (AGU) 2018 Fall National Meeting, Washington D.C., December, 2018.
17. Gallo, E.M., T.S. Hogue, C. D. Bell<sup>1</sup>, K. Spahr, E. Grubert and J.R. Stokes-Draut, Application of a new integrated decision support tool (i-DST) for urban water infrastructure: Analyzing water quality compliance pathways in Ballona Creek Watershed in Los Angeles, California, AGU Fall National Meeting, Washington D.C. December 2018.
18. Bell, C., E.M. Gallo, K. Spahr, J.E. McCray and T.S. Hogue, An Integrated Decision Support Tool (i-DST) for Urban Stormwater Management: A User's Perspective, AGU Fall National Meeting, Washington D.C. December 2018.
19. Ruybal, C.J, W. Kyle Blount and T.S. Hogue, Evaluating Hydrologic Partitioning and Water Yield Following Wildfire in Forested Watersheds, AGU Fall National Meeting, Washington D.C. December 2018.
20. Spahr, K., C.D. Bell, J. Stokes-Draut, E.M. Gallo, J.E. McCray, and T.S. Hogue, Tipping Point Analysis Using Remote Sensing to Investigate the Impacts of Green Infrastructure on Social and Environmental Benefits in Urban Areas in the United States, AGU Fall National Meeting, Washington D.C. December 2018.



21. Slinski, K., T. Pellarin, B. Hector, J.M. Cohard, J.M. Vouillamoz, M. Desclotres, T. S. Hogue, and J. McCray. InSAR-Measured Seasonal Surface Deformation Induced by the West African Monsoon Poster, American Geophysical Union Fall Meeting, 2018.
22. Geza, M., A. Shojaeizadeh, C. Bell, J. McCray, T. Hogue, A Site Scale Integrated Decision Support Tool for selection and sizing of Stormwater Best Management Practices, American Geophysical Union Fall Meeting, December, 2018.
23. Western Forest Fires and Long-term Impacts on Water Quality, A.J. Rust, S. Saxe, T.S. Hogue, J. Randell, and A. Todd. Oral presentation Colorado Lakes and Reservoir Management Association Annual Meeting, Westminster, Colorado, November 2018.
24. Saxe, S., W. Farmer, L. Hay, T. Hogue, J. Kiang, J. Driscoll, New Hydrologic Performance Evaluation Methodologies - Samuel Saxe, U.S. Geological Survey, Lakewood, CO (co-authors - W. Farmer, L. Hay, T. Hogue, J. Kiang, J. Driscoll, AWRA, Baltimore, MD, November, 2018.
25. Gilliom, G., C. Bell, T.S. Hogue, J. McCray, Improving Parameterization of Green Infrastructure Pollutant Removal Rates utilizing the International Stormwater BMP Database. AWRA Annual Conference 2018. November 2018, Baltimore, MD. Oral presentation.
26. Gilliom, R., A. Kroepsch, T.S. Hogue, J. McCray, Using Policy and Historic Conflict to Inform Research Agenda: Infill Development and Stormwater Harvesting. AWRA Annual Conference 2018. November 2018, Baltimore, MD. Oral presentation.
27. Wolfand, J., Seller, C., Cho, Y.M., Hogue, T.S., Luthy, R.G. Modeling reduction of bacteria and pyrethroids by enhanced stormwater best management practices (BMPs) on a watershed scale. EWRI Congress, Minneapolis, MN. Talk. June 2018.
28. K. Schneider, A. Martin and T. Hogue. Evaluation of Research Experience for Teachers (RET) Program Effectiveness as STEM Professional Development. American Society for Engineering Education. Salt Lake City, UT (oral presentation), June 2018.
29. Shojaeizadeh, A.; Geza, M.; Bell, C. D.; Gallo, E.; Spahr, K.; Mc Cray, J. E.; Hogue, T.; A Site Scale Integrated Decision Support Tool for Urban Stormwater Management; World Environmental and Water Resources Congress (EWRI); June 3-7, 2018
30. Wolfand, J., Seller, C., Cho, Y.M., Hogue, T.S., Luthy, R.G. Modeling reduction of bacteria and pyrethroids by enhanced stormwater best management practices (BMPs) on a watershed scale. EWRI Congress, Minneapolis, MN. *Talk*. June 2018.
31. Gallo, E. M.; Bell, C. D.; Spahr, K.M.; McCray, J. E.; Hogue, T. S.; Application of a New Integrated Decision Support Tool (i-DST) for Urban Water Infrastructure: Modeling Green, Grey, and Hybrid Infrastructure in Ballona Creek Watershed in Southern California . World Environmental and Water Resources Congress; Minneapolis, MN; June, 2018
32. Panos, C., & T.S. Hogue. Evaluating urban resilience to hydrologic change by modeling future impervious cover change due to infill development. Oral Presentation presented at the 9th International Congress on Environmental Modelling and Software (iEMSs), Fort Collins, CO, June 2018
33. Saxe, Samuel; Farmer, William; Hay, Lauren; Hogue, Terri; Kiang, Julie; Driscoll, Jessica; 2018. "New hydrologic model performance evaluation methodologies"; Poster presentation, iEMS Conference, Fort Collins, Colorado., June 2018
34. Using the Soil-Water-Assessment-Tool (SWAT) to Predict Water Quality in Streams After Forest Fire. A. J. Rust and T. S. Hogue. International Association of Wildland Fire Annual Conference, Missoula, Montana, May 2018.
35. Hogue, T.S., Elizabeth Gallo, Colin Bell, and Katie Spahr, An integrated decision support tool (i-DST) for urban water management: Optimization and co-benefit analysis of grey and green infrastructure for water quality compliance, EGU General Assembly, April 2018
36. Shojaeizadeh, A.; Geza, M.; Bell, C. D.; Hogue, T.; Mc Cray, J. E.; Site scale integrated decision support tool (i-DST) for stormwater management; Western South Dakota Hydrology Conference, April, 2018
37. Rust, A.J., T.S. Hogue, Prediction of Post-fire Water Quality Using the Soil-Water-Assessment-Tool (SWAT), Poster in 2018 EGU General Assembly, EGU, April, 2018.
38. Slinski, K., T. Pellarin, B. Hector, J.M. Cohard, T. Hogue, and J. McCray. High resolution mapping of hydrologic deformation induced by the West African Monsoon. Poster in 2018 EGU General Assembly, EGU, April, 2018
39. Saxe, Samuel; Farmer, William; Hogue, Terri; Hay, Lauren; Kiang, Julie; 2018. "Identification of imbalance in regional water budgets"; Poster presentation, AWRA GIS-X Specialty Conference, Orlando, FL., Feb. 2018

40. Wolfand, J., C. D. Bell, A. Boehm, T.S. Hogue and R.G. Luthy, 2017. Predicting Bacteria Removal by Enhanced Stormwater Control Measures (SCMs) at the Watershed Scale American Geophysical Union (AGU) Fall National Meeting, December 2017
41. Bell, C.D., Y. Li, E. Lopez, and T.S. Hogue, 2017: Development and Exploration of a Regional Stormwater BMP Performance Database to Parameterize an Integrated Decision Support Tool (i-DST), Fall national Meeting, December, 2017
42. Gallo, E.M., T. S. Hogue, C. D. Bell, K. Spahr and J. E. McCray, 2017: Application of a New Integrated Decision Support Tool (i-DST) for Urban Water Infrastructure: Analyzing Water Quality Compliance Pathways for Three Los Angeles Watersheds, American Geophysical Union (AGU) Fall National Meeting, December 2017
43. Read, L.K., D. Gochis, J. Brown and T. S. Hogue, 2017: Development and Validation of Hyper-Resolution Modeling Capability for WRF-Hydro , American Geophysical Union (AGU) Fall National Meeting, December 2017
44. Blount, W.K., T.S. Hogue, K. Franz, and K. R. Knipper, 2017: Application of a MODIS Soil Moisture-Evapotranspiration (MOD-SMET) Model to Evaluate Landscape and Hydrologic Recovery after the High Park Fire in Colorado, USA , American Geophysical Union (AGU) Fall National Meeting, December 2017
45. Hogue, T.S., C. Panos, J. E. McCray, and R. Gilliom, 2017: Stormwater Infrastructure at Risk: Predicting the Impacts of Increased Imperviousness due to Infill Development in a Semi-arid Urban Neighborhood American Geophysical Union (AGU) Fall National Meeting, December 2017
46. Dolan, F., and T. S. Hogue, 2017: From Waste to Wealth: Using Produced Water for Agriculture in Colorado American Geophysical Union (AGU) Fall National Meeting, December 2017
47. Rust, A., S. Saxe, T. S Hogue, J. E. McCray and C. Rhoades, 2017: Post-fire Water Quality Response and Associated Physical Drivers American Geophysical Union (AGU) Fall National Meeting, December 2017
48. Gilliom, R., T. S. Hogue and J. E. McCray, 2017: Probabilistic Determination of Green Infrastructure Pollutant Removal Rates from the International Stormwater BMP Database , American Geophysical Union (AGU) Fall National Meeting, December 2017
49. Slinski, K., T. S. Hogue and J. E. McCray, 2017: High Resolution Mapping of Drought Impacts on Small Waterbodies using Sentinel 1 SAR and Landsat Observations , American Geophysical Union (AGU) Fall National Meeting, December 2017
50. Ruybal, C.J., Hogue, T.S., and J.E. McCray, 2017: Spatio-temporal Assessment of Groundwater Resources in the South Platte Basin, Colorado. Oral Presentation. GSA Annual Meeting, Seattle, WA.
51. Blount, W.K., T.S. Hogue, K.J. Franz, K.R. Knipper, 2017: Evapotranspiration and partitioning of the hydrologic cycle in fragmented landscapes in the Western United States, Universities Council on Water Resources (UCOWR), Fort Collins, CO, June 2017.
52. Bell, C., K. Spahr, J. McCray, T.S. Hogue, 2017: Framework and parameterization of a decision support tool for stormwater infrastructure, Universities Council on Water Resources (UCOWR), Fort Collins, CO, June 2017.
53. Gilliom, R., J. McCray, T.S. Hogue, 2017: Deriving a statistically representative removal constant from the international stormwater BMP database, Universities Council on Water Resources (UCOWR), Fort Collins, CO, June 2017.
54. Slinski, K., J. McCray, T. S. Hogue, 2017: Using satellite data to build climate resilience: A high resolution multi-sensor monitor of waterbody change during the 2015/2016 East African drought, Universities Council on Water Resources (UCOWR), Fort Collins, CO, June 2017.
55. Panos, C., T.S. Hogue, J. McCray, D. Mollendor, 2017: Modeling redevelopment impacts on urban stormwater runoff in Denver, Colorado, Universities Council on Water Resources (UCOWR), Fort Collins, CO, June 2017.
56. Hogue T.S., Bell, C.D., Spahr, K.M., McCray, J.E., 2017: Development of an integrated decision support tool (i-DST) for grey-green infrastructure planning across diverse climates, Canadian Water Network Blue Cities Meeting, May 2017, Toronto, Canada.
57. Wolfand, J., Hogue, T., Luthy, R. Predicting Fecal Indicator Bacteria Fate and Removal in Urban Stormwater at the Watershed Scale. ASCE EWRI World Environmental & Water Resources Congress, Sacramento, CA. May 2017.
58. Spahr, K.M., Hogue T.S., Bell, C.D., McCray, J.E., Incorporating Co-Benefits and Avoided Risk into a Decision Support Tool for Storm Water Infrastructure Selection. ASCE EWRI World Environmental & Water Resources Congress, May 2017, Sacramento, CA

59. Read, L.K., F. Salas, T.S. Hogue and D.J. Gochis, 2017: Identifying Priorities for Urban Parameterizations in the WRF-Hydro Framework, American Meteorological Society, Seattle, WA, January 2017.
60. Hogue, T.S., K. Knipper, W.K. Blount, K.J. Franz, and R.L. Scott, 2017: Evaluation of Evapotranspiration Estimates From Multi-Platform Satellites in the Western U.S., American Meteorological Society, Seattle, WA, January 2017.
61. Madsen, T., K.J. Franz, and T.S. Hogue, 2017: Evaluation of a Distributed Streamflow Forecast Model at Multiple Watershed Scales, American Meteorological Society, Seattle, WA, January 2017.
62. Bowman, A.L., K.J. Franz, and T.S. Hogue, 2017: Understanding Hydrologic Model Structure through Satellite Observations, American Meteorological Society, Seattle, WA, January 2017.
63. Rust, A., S. Saxe, T.S. Hogue, and J. McCray, 2016: Evaluating Water Quality Response and Controlling Variables for Burned Watersheds in the Western United States, American Geophysical Union (AGU) Fall National Meeting, December 2016
64. Valentin, M., L. Hay, A. Van Beusekom, R. Viger, and T.S. Hogue, 2016: A Simple Water Balance Model Adapted for Arctic Hydrology Reveals Glacier and Streamflow Responses to Climate Change in the Copper River, Alaska, American Geophysical Union (AGU) Fall National Meeting, December 2016
65. Hogue, T.S., A. Blaine, and A. Martin, 2016: The ConocoPhillips Center for a Sustainable WE<sup>2</sup>ST (Water-Energy Education, Science, and Technology): Lessons Learned from an Innovative Research-Education-Outreach Center at Colorado School of Mines, American Geophysical Union (AGU) Fall National Meeting, December 2016
66. Blaine, A., A. Martin and T.S. Hogue, 2016: Successes of a new NSF Research Experience for Teachers (RET): Water-Energy Education for the Next Generation (WE<sup>2</sup>NG) Empowers K-12 Educators to Train Our Future Scientists to Solve Critical STEM Issues, American Geophysical Union (AGU) Fall National Meeting, December 2016
67. Manago, K., T.S. Hogue, E. Litvak, D. E. Pataki, 2016: Evaluating relationships between urban land cover composition and evapotranspiration in semi-arid regions, American Geophysical Union (AGU) Fall National Meeting, December 2016
68. Neel, A., T.S. Hogue, L. Read, 2016: Understanding Long-term Greenness, Water Use, and Redevelopment in Denver, Colorado, American Geophysical Union (AGU) Fall National Meeting, December 2016
69. Spahr, K. and T.S. Hogue, 2016: Evaluation of the Effectiveness of Stormwater Decision Support Tools for Infrastructure Selection and the Barriers to Implementation, American Geophysical Union (AGU) Fall National Meeting, December 2016
70. Knipper, K., T.S. Hogue, K. Franz, and R. Scott, 2016: Evapotranspiration Estimates Derived Using Multi-Platform Remote Sensing in a Semi-arid Region, American Geophysical Union (AGU) Fall National Meeting, December 2016
71. Dolan, F., A. Blaine, and T.S. Hogue, 2016: Determining the Economic Feasibility of Using Produced Water for Agriculture in Colorado Through Life Cycle Cost Analyses, American Geophysical Union (AGU) Fall National Meeting, December 2016
72. Gallo, E., T.S. Hogue, M. Gold and T.S. Hogue, 2016: Modeling the efficacy of future BMP implementation to improve water quality in the highly urbanized watersheds of Dominguez Channel and Machado Lake in Los Angeles California, American Geophysical Union (AGU) Fall National Meeting, December 2016
73. Wolfand, J., T.S. Hogue, and R. Luthy, 2016: Predicting Fecal Indicator Bacteria Fate and Removal in Urban Stormwater at the Watershed Scale, American Geophysical Union (AGU) Fall National Meeting, December 2016
74. Panos, C., T.S. Hogue, and J. McCray, 2016: Modeling and Management of Increased Urban Stormwater Runoff Using InfoSWMM Sustain in the Berkeley Neighborhood of Denver, Colorado, American Geophysical Union (AGU) Fall National Meeting, December 2016
75. Ruybal, C., T.S. Hogue, and J. McCray, 2016: Aquifer-scale Application of GRACE across the South Platte Basin, Colorado, for Assessing Groundwater Resources, American Geophysical Union (AGU) Fall National Meeting, December 2016
76. Read, L., C. Ruybal, T.S. Hogue, and M. Hinojosa, 2016: Addressing the challenges of GRACE application in basins with hydraulic fracturing activity, American Geophysical Union (AGU) Fall National Meeting, December 2016

77. Slinski, K., T.S. Hogue, and J. McCray, 2016: Using Satellite Data to Build Climate Resilience: A Novel East Africa Drought Monitor, American Geophysical Union (AGU) Fall National Meeting, December 2016
78. Backsmeier, A. P., A. J. Rust and T. S. Hogue<sup>1,2</sup> Modeling Water Quality After the 1988 Greater Yellowstone Area Fires, Geological Society of American (GSA) National Meeting, September, 2016
79. Ruybal, C., T.S. Hogue, and J. McCray, 2016: Using the Grace Satellites and Ground-based Data to Assess Groundwater Storage Changes in the South Platte Basin, Colorado, Geological Society of American (GSA) National Meeting, September, 2016
80. Wolfand, J., Hogue, T.S., Luthy, R. Modeling enhanced stormwater treatment technologies for water quality benefit and regulatory compliance. Statewide Water Reuse Forum, Sacramento, CA. September 2016.
81. Dolan, F., A. Blaine and T.S. Hogue, 2016: The Wellington Model: A Life Cycle Cost Analysis of Produced Water in Colorado to Determine the Possibility of Beneficial Reuse, Geological Society of American (GSA) National Meeting, September, 2016
82. Slinski, K., T.S. Hogue, A. Porter, and J. McCray, 2016: Bayesian Hierarchical Models for High-dimensional Remote Sensing Data with Application to GRACE Total Water Storage Anomalies, Geological Society of American (GSA) National Meeting, September, 2016
83. Rust, A., J. Randell, and T.S. Hogue, 2016: Water Quality Impacts of the West Fork Complex Fire: Monitoring Ecosystem health and Impacts on Downstream Communities in the Upper Rio Grande, 2016: Geological Society of American (GSA) National Meeting, September, 2016
84. Panos, C., T. S. Hogue, L. Cherry, K. Lowe, and J. McCray, 2016: Stormwater modeling for evaluating redevelopment impacts in Denver, Colorado, ASCE EWRI Meeting, Portland, ME, August 2016.
85. Gallo, E., T. S. Hogue, M. Gold and K. Mika, 2016: Modeling the efficacy of future BMP implementation to improve water quality in the highly urbanized watersheds of Dominguez Channel and Machado Lake in Los Angeles, ASCE EWRI Meeting, Portland, ME, August 2016.
86. Hogue, T.S., J. McCray, A. Horvath, J. Stokes, M. Geza, C. Higgins, and R. McDonald, 2016: Development of an Integrated DSS for Grey, Green and Hybrid Infrastructure, ASCE EWRI Meeting, Portland, ME, August 2016.
87. Gilliom, R.L., Holley, J., Lowe, K., Panos, C., Eisenstein, W., Hogue, T.S., Mollendor, D., McCray, J.E., 2016: Innovative Green Infrastructure for Centralized Treatment of Stormwater from an Urban Neighborhood in Denver, Colorado, ASCE EWRI Meeting, Portland, ME, August 2016.
88. Read, L., F. Salas, T.S. Hogue, and D. Gochis, 2016: Improving urban streamflow forecasting using a high-resolution large scale modeling framework, European Geophysical Union (EGU) Annual Meeting, Vienna, Austria, April 2016
89. Knipper, K., T.S. Hogue, K. Franz, and R. Scott, 2016: Evapotranspiration Estimates for Arid Regions Using Multi-Platform Remote Sensing, European Geophysical Union (EGU) Annual Meeting, Vienna, Austria, April 2016
90. Saxe, S., T.S. Hogue and L. Hay, 2015: Linear Modeling and Evaluation of Controls on Flow Response in Western Post-Fire Watersheds, AGU Fall National Meeting, San Francisco, CA. December 2015.
91. Reyes, B., T.S. Hogue and R. Maxwell, 2015: Understanding the impacts of anthropogenic processes on the Los Angeles Basin with an integrated high-resolution hydrologic model, AGU Fall National Meeting, San Francisco, CA. December 2015.
92. Manago, K., and T.S. Hogue, 2015: Evaluating the Impact of Conservation Measures on Urban Water Fluxes in Los Angeles, California, AGU Fall National Meeting, San Francisco, CA. December 2015.
93. Logan, R., T.S. Hogue and L. Hay, 2015: Modeling wildfire impact on hydrologic processes using the Precipitation Runoff Modeling System, AGU Fall National Meeting, San Francisco, CA. December 2015.
94. Knipper, K., T.S. Hogue and K. Franz, 2015: Evapotranspiration Estimates in the Mountain West Utilizing Multi-platform Remote Sensing, AGU Fall National Meeting, San Francisco, CA. December 2015.
95. Slinski, T.S. Hogue, J. McCray and A. Porter, 2015: Incorporation of GRACE Data into a Bayesian Model for Groundwater Drought Monitoring, AGU Fall National Meeting, San Francisco, CA. December 2015.
96. Ruybal, C., J. McCray and T.S. Hogue, 2015: Spatiotemporal Assessment of Groundwater Resources in the South Platte Basin, Colorado, AGU Fall National Meeting, San Francisco, CA. December 2015.
97. Anderson, A., E. Walker, T.S. Hogue, and C. Ruybal, 2015: Soil-Water Balance (SWB) model estimates of soil-moisture variability and groundwater recharge in the South Platte watershed, Colorado, AGU Fall National Meeting, San Francisco, CA. December 2015.

98. Walker, E., T.S. Hogue, A. Anderson and L. Read, 2015: Future Water Management in the South Platte River Basin: Impacts of Hydraulic Fracturing, Population, Agriculture, and Climate Change in a Semi-Arid Region, AGU Fall National Meeting, San Francisco, CA. December 2015.
99. L. Read, T.S. Hogue, F. Salas, and D. Gochis, 2015: Street Level Hydrology: An Urban Application of the WRF-Hydro Framework in Denver, Colorado, AGU Fall National Meeting, San Francisco, CA. December 2015.
100. Bowman, A., K. Franz and T.S. Hogue, 2015: Does model structure limit the use of satellite data as hydrologic forcing for distributed operational models?, AGU Fall National Meeting, San Francisco, CA. December 2015.
101. Rust, A., S. Saxe, F. Dolan, T.S. Hogue and J. McCray, 2015: Determinants of Post-fire Water Quality in the Western United States, AGU Fall National Meeting, San Francisco, CA. December 2015.
102. Panos, C., T.S. Hogue, L. Cherry, K. Lowe, J. McCray, 2015: Stormwater modeling for Redevelopment impacts on the Berkeley Neighborhood of Denver, Colorado. AWRA National Meeting, Denver, CO, November 2015.
103. Rust, A., J. Randall, and T.S. Hogue, 2015: Water quality impacts From the West Fork Complex Fire: using Real-Time Data to monitor Ecosystem health in the upper Rio Grande. AWRA National Meeting, Denver, CO, November 2015.
104. Radavich, K., T.S. Hogue, and M. Gold, 2015: Assessing the Effect of Best management Practices on Water quality and Flow Regime in an urban Watershed under Climate Change Disturbance, AWRA National Meeting, Denver, CO, November 2015.
105. Walker, E., A. Anderson, T.S. Hogue, 2015: Anthropogenic and Natural hydrologic Effects on the Water Balance in a Semi-Arid Watershed: A Case Study in the South Platte Watershed, AWRA National Meeting, Denver, CO, November 2015.
106. McCray, J.E., D. Mollendor, L. Cherry, B. Eisenstein, T. Hogue, 2015: Overcoming Technical, legal, and Economic Barriers to implement an innovative Stormwater Reclamation and Beneficial use Project, AWRA National Meeting, Denver, CO, November 2015
107. Cherry, L., D. Mollendor, B. Eisenstein, T. Hogue, J.E. McCray, 2015: Predicting the influence of Redevelopment on Stormwater quality and quantity in Denver Neighborhood, AWRA National Meeting, Denver, CO, November 2015
108. Ruybal, C., T.S. Hogue and J.E. McCray, 2015: Assessment of groundwater Storage Changes and Recharge in the South Platte Basin, AWRA National Meeting, Denver, CO, November 2015
109. Edgeley, R., T.S. Hogue, M. Gold, K. Radavich, C. Panos, K. Mika, M. Mukherje, 2015: Using EPA's SuSTaiN model to Assess the Efficacy of BmPs to meet metal TMDLs in the Los Angeles River Basin, AWRA National Meeting, Denver, CO, November 2015
110. Slinski, K., J.E. McCray, T.S. Hogue, A.T. Porter, 2015: Hydrologic Response to Mountain Pine Beetle Outbreaks at Broad Spatial Extents, AWRA National Meeting, Denver, CO, November 2015.
111. Knipper, K., T.S. Hogue and K. Franz, 2015: Improving Evapotranspiration Estimates in the Rio Grande Headwaters Through Remote Sensing, AWRA National Meeting, Denver, CO, November 2015.
112. Rust, A. and T.S. Hogue, 2015: Post-fire Hydrology Research at CSM, Southern Rockies Fire Science Symposium, Wolf Creek, Colorado, July 2015.
113. Manago, K., and T.S. Hogue, 2015: Evaluating the impacts of land Cover and imported water on groundwater levels and seasonal runoff Patterns in Los Angeles, CA, AWRA Spring Specialty Conference, Los Angeles, CA. March 2015
114. Radavich, K., T.S. Hogue, and M. Gold, 2015: Assessing Compliance with water quality regulations through implementation of best management Practices (BMPs) in the EPA's sustain model, AWRA Spring Specialty Conference, Los Angeles, CA. March 2015
115. Carandang, C., K.F. Manago and T.S. Hogue, 2015: Quantifying impacts of Drought and Conservation measures on urban vegetation in southern California, AWRA Spring Specialty Conference, Los Angeles, CA. March 2015
116. Walker, E., T.S. Hogue, A. Anderson, C. Ruybal, L. Servin, and C. Barry, 2015: An Analysis of Water Use for Unconventional Energy Development in the Denver-Julesburg Basin, GSA Regional Conference, Stillwater, OK, March, 2015
117. Walker, E., and T.S. Hogue, 2015: Analysis of water use for oil and gas in the South Platte basin, American Chemical Society National Meeting, Denver, CO. March 2015
118. Rust, A.J., T.S. Hogue, J. Randell. Wildfire Impacts on Water Quality, Macroinvertebrates, and Trout: An Initial Survey After the West Fork Complex Fire in the Upper Rio Grande. American Geophysical Union: Hydrology Days, Fort Collins, March, 2015.

119. Saxe, S. T.S. Hogue and L. Hay, 2015: Regional Variability of Controls on Post-Wildfire Watershed Flow, American Geophysical Union: Hydrology Days, Fort Collins, March, 2015.
120. Rust, A., K. Knipper, J. Randell, T.S. Hogue, 2014: Wildfire Impacts on Water Quality, Macroinvertebrates and Trout: An Initial Survey After the West Fork Complex Fire in the Upper Rio Grande, AGU Fall Annual Meeting, December, 2014.
121. Manago, K., T.S. Hogue, A. Hering, 2014: Multiple Imputation of Groundwater Data to Evaluate Spatial and Temporal Anthropogenic Influences on Subsurface Water Fluxes in Los Angeles, CA, AGU Fall Annual Meeting, December, 2014
122. Vahmani, P., and T.S. Hogue, 2014: WRF-UCM Modeling of Urban Land-Atmosphere Interactions with a Focus on Landscape Irrigation in the Los Angeles Metropolitan Area, AGU Fall Annual Meeting, December, 2014
123. Kinoshita, A., and T.S. Hogue, 2014: Evaluation of wildfire patterns at the wildland-urban fringe across the continental U.S., AGU Fall Annual Meeting, December, 2014
124. Anderson, A., P. Micheletty, A. Kinoshita, and T.S. Hogue, 2014: Application of the Precipitation Runoff Modeling System to evaluate water budgets after forest fuel management, AGU Fall Annual Meeting, December, 2014
125. Reyes, B., R. Maxwell, and T.S. Hogue, 2014: Analyzing urban sub-grid processes using high-resolution land cover and an integrated hydrologic model, AGU Fall Annual Meeting, December, 2014
126. Radavich, K., T.S. Hogue, A. Beck, M. Gold and K. Mika, 2014: Using the EPA's SUSTAIN Model to Assess the Capability of Best Management Practices (BMPs) to Improve Water Quality in the Los Angeles Basin, AGU Fall Annual Meeting, December, 2014
127. Micheletty, P. T.S. Hogue, L. Hay, S. Markstrom, R. Regan, 2014: Improving USGS National Hydrologic Model Parameterization with Satellite-Based Phenology Products, AGU Fall Annual Meeting, December, 2014.
128. Walker, E., A. Anderson, C. Barry, and T.S. Hogue, 2014: An Analysis of water use for unconventional energy development in the Denver-Julesburg basin, GSA National Meeting, Vancouver, British Columbia, Canada, October 2014.
129. Acob, T., B. Reyes, K. Manago, T.S. Hogue, and R. Maxwell, 2014: Climatological and Anthropogenic Impacts on contributions to urban Groundwater in Los Angeles, CA, NGWA Groundwater Summit, May, 2014.
130. Knipper, K., A. Rust, A.M. Kinoshita and T.S. Hogue, 2014: Post-Fire Water Quality and Quantity in the Rio Grande: a Project Centered on Community Well-being, San Juan Mining Conference, Creede, CO, April
131. Hogue, T.S., A.M. Kinoshita, P. Micheletty, 2014: Wildfire Impacts on Snowmelt, Streamflow and Water Quality, San Juan Mining Conference, Creede, CO , April.
132. Knipper; K.R., T.S. Hogue, and A. M. Kinoshita, 2013; Remote Sensing of Evapotranspiration in Sub-Alpine Environments, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
133. Hogue, T.S., M. Barik, K. Franz and A.M. Kinoshita, 2013: Evaluation of MODIS, Epan and DAYMET-derived Potential Evapotranspiration Products in the Upper Colorado River Basin, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
134. Manago, K.F., T.S. Hogue, D.E. Pataki, and S.Pincetl, 2013: The role of imported water on urban water budgets in southern California, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
135. Vahmani, P. and T.S. Hogue, 2013: Integrating Remote Sensing Data in Noah-UCM Parameterization and Validation: A Case Study for the Los Angeles Metropolitan Area, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
136. Reyes, B., T. S. Hogue, R.M. Maxwell and C.D. Peters-Lidard, 2013: Hydrologic and Land Surface Modeling of the Semi-Arid Urban Environment: Ballona Creek, Los Angeles, CA, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
137. Hogue, T.S., A.M. Kinoshita and J. Randell, 2013: A mountain watershed hydrology field course: Experiential learning in hydrologic concepts and measurement techniques, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
138. Bowman, A. L., K. Franz and T.S. Hogue, 2013: Towards improved modeling of the hydrologic cycle in streamflow prediction models through satellite remote sensing applications, American Geophysical Union Fall National Meeting, San Francisco, CA, December.

139. Mini, C., T.S. Hogue and S. Pincetl , 2013: The effectiveness of recent water restriction policies on single-family water use in Los Angeles, California, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
140. Micheletty, P.D., A.M. Kinoshita and T.S. Hogue, 2013: Application of MODSCAG and MODIS snow products in post-fire watersheds in the western U.S., American Geophysical Union Fall National Meeting, San Francisco, CA, December.
141. Kinoshita; A.M., and T.S. Hogue, 2013: Hydrologic recovery in post-burn watersheds in the western U.S., American Geophysical Union Fall National Meeting, San Francisco, CA, December.
142. Reyes, B., T.S. Hogue, and R.M. Maxwell 2013: Hydrologic and Land Surface Modeling of the Semi-Arid Urban Environment. Expository Talk, Super Computing 2013 Conference, Denver, CO, November.
143. Micheletty, P.D., T.S. Hogue, and A.M. Kinoshita, 2013: Hydrologic response and vegetation recovery in the Waldo Canyon Fire, GSA Annual Meeting, Denver, CO, October.
144. A.M. Kinoshita and T.S. Hogue, 2013: Wildfire patterns and susceptibility at the wildland-urban interface in California, GSA Annual Meeting, Denver, CO, October.
145. Reyes, B., P. Vahmani, T.S. Hogue and R.M. Maxwell, 2013: Assessing the Effects of Irrigation on Land Surface Processes Utilizing CLM.PF in Los Angeles, California, AGU Meeting of the Americas, Cancun, Mexico, May.
146. Kinoshita, A.M., and T.S. Hogue, 2013: Assessing increasing susceptibility to wildfire at the wildland-urban fringe, AGU Meeting of the Americas, Cancun, Mexico, May.
147. Kinoshita, A.M., T.S. Hogue, and J. Kim, 2013: Application of a modified SEBAL evapotranspiration algorithm for improved understanding and prediction of hydrologic behavior in highly altered landscapes, American Meteorological Society, Austin, TX, January.
148. Kinoshita, A.M., B., Hale, and T.S. Hogue, 2012: Utilizing Remote Sensing Information to Improve Post-fire Rainfall-runoff Predictions after the 2010 Bull Fire in the Sequoia National Forest, CA, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
149. Barik, M.G., T.S. Hogue, K.J. Franz, and M. He, 2012: Evaluating a snow data assimilation framework for streamflow forecasting applications using hindcast verification, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
150. Hogue, T.S., A.M. Kinoshita and J. Kim, 2012: Development of remote sensing products to improve understanding of land surface disturbance and altered watershed behavior, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
151. Vahmani, P. and T.S. Hogue, 2012: Development of an Anthropogenic Soil Moisture Contribution Module in the NOAA-UCM for the Los Angeles Metropolitan Region, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
152. Mini, C., T.S. Hogue; S. Pincetl, 2012: Quantifying and Predicting Outdoor Water Use in Los Angeles, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
153. Daniel, J.C., T.S. Hogue; M.B. Moldwin; P. Nonacs, 2012: Outreach and education in urban Los Angeles Schools: integration of research into middle and high school science curriculum through the NSF GK-12 SEE-LA program, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
154. Bowman, A., K.J. Franz; T.S. Hogue; J. Kim; M.M. Deweese, 2012: Using a satellite-based potential ET product for operational hydrologic forecasting, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
155. Spies, R.R., K.J. Franz; A. Bowman; T.S. Hogue; J. Kim, 2012: Satellite-derived potential evapotranspiration for distributed hydrologic runoff modeling, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
156. Lopez, S.R., M. Garcia, M.P. Burke, and T.S. Hogue, 2012: Long-term Changes to Hydrology and Sediment Transport due to Climate Variability in Southern California, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
157. Hale, B., A.M. Kinoshita, T.S. Hogue, and C. Napper, 2012: Evaluating wildfire recovery with paired field hydrology and remote sensing in Southern Sequoia National Forest, Southwest Wildfire Hydrology and Hazards Workshop , Tucson, Arizona, April.
158. Kinoshita, A.M., T.S. Hogue, and J. Kim, 2012: Utilizing Remote Sensing Indices to Evaluate Hydrologic Recovery in the Arroyo Seco Watershed, Southwest Wildfire Hydrology and Hazards Workshop , Tucson, Arizona, April.

159. Hogue, T.S., J. Daniel, P. Nonacs, M. Moldwin, 2012: Development of the Scientist-in-Residence Program through UCLA's Science and Engineering of the Environment of Los Angeles (SEE-LA) GK-12, GK-12 Annual Meeting, Washington, D.C., March.
160. Lopez, S.R., and T.S. Hogue, 2011: Utilization of an Enhanced Canonical Correlation Analysis (ECCA) to Predict Daily Precipitation and Temperature in a Semi-Arid Environment, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
161. Liu, S., T.S. Hogue, E.D. Stein, and J. Barco, 2011: Partitioning Native and Imported Source Contributions and their Uncertainties for Urban Runoff in Los Angeles, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
162. Barik, M.G., T.S. Hogue, K.J. Franz, and M. He, 2011: Verification of Advances in a Coupled Snow-runoff Modeling Framework for Operational Streamflow Forecasts, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
163. Hogue, T.S., 2011: Highlights and Challenges in Education, Outreach, and Undergraduate Mentoring from an NSF Hydrologic Sciences CAREER Award, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
164. Hale, B., A.M. Kinoshita, T.S. Hogue, and C. Napper, 2011: Post-fire hydrologic model assessment for peak flow estimates across diverse watersheds and climate conditions, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
165. Vahmani, P., T.S. Hogue, and J. Kim, 2011: Development and validation of the Noah-Urban Canopy Model for two distinct urban climates in the Los Angeles basin, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
166. Kinoshita, A.M., T.S. Hogue, and J. Kim, 2011: Incorporating multi-platform remote sensing products for prediction of post-fire hydrologic recovery, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
167. Franz, K.J., A.L. Bowman, T.S. Hogue, J. Kim and R. Spies, 2011: Replacing climatological potential evapotranspiration estimates with dynamic satellite-based observations in operational hydrologic prediction models, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
168. Mini, C., T.S. Hogue, and S. Pincetl, 2011: Development of urban water consumption models for the City of Los Angeles, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
169. Hogue, T.S., and J. Kim, 2011: Development of High Resolution Multi-platform Satellite Products for Hydrologic Applications, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
170. Mini, C., T.S. Hogue, and S. Pincetl, 2011: Socio-demographic and Climate Impacts on Residential Total Water Use in the City of Los Angeles, MEDECOS XII: Linking Science to Resource Management, The International Mediterranean Ecosystems Conference, Los Angeles, CA, September.
171. Kinoshita, A. and T.S. Hogue, 2011: Investigating Hydrologic Recovery for Burned Watersheds in Southern California, ASCE World Environmental & Water Resources Congress, Palm Springs, CA, May.
172. Liu, S., T.S. Hogue, J. Barco and E. Stein, 2011: Contemporary and Historical Water Balance of an Urban Watershed in Southern California, ASCE World Environmental & Water Resources Congress, Palm Springs, CA, May.
173. Mini, C., T.S. Hogue, and S. Pincetl, 2011: Socio-demographic and Climate Impacts on Landscape Water Use in the City of Los Angeles, ASCE World Environmental & Water Resources Congress, Palm Springs, CA, May.
174. Hogue, T.S., M. Burke, V. Thulsiraj, J. Daniel, M.B. Moldwin, and P. Nonacs, 2010: Fostering inquiry-lesson development on regional water resource issues in Los Angeles urban schools through the NSF UCLA GK-12 program, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
175. Burke, M.P., T.S. Hogue, J. Barco-Mugg and C.J. Wessel, 2010: Changes in contaminant loading and hydro-chemical storm behavior after the Station Fire, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
176. Hogue, T.S., He, M., K. Franz, S.A. Margulis, and J.A. Vrugt, An integrated uncertainty analysis and data assimilation approach for improved streamflow predictions, American Geophysical Union Fall National Meeting, San Francisco, CA, December.



177. Mini, C., T.S. Hogue, and S. Pincetl, 2010: Understanding socio-demographic and climate impacts on total and landscape water use in the City of Los Angeles, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
178. Kinoshita, A.M., T.S. Hogue and J. Kim, 2010: Integrating MODIS-based products to improve post-fire recovery predictions for burned watersheds in Southern California, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
179. Kim, J., T.S. Hogue and S. Pincetl, 2010: Integrating Landsat7 ETM+ and MODIS Products for Improved Spatial and Temporal Evapotranspiration Estimates, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
180. Kinoshita, A.M., T.S. Hogue, 2010: Integrating MODIS-based products into MIKE-SHE simulations of burned watersheds in Southern California, American Geophysical Union Spring National Meeting, Foz do Iguassu, Brazil, August.
181. Lopez, S.R., T.S. Hogue, E.D. Stein, D.C. Ackerman, 2010: Development of Archetypal Watersheds and Climate Scenarios to Evaluate Climate Change Along Southern California's Coast, American Geophysical Union Spring National Meeting, Foz do Iguassu, Brazil, August.
182. Burke, M.P., M. Ferreira, T.S. Hogue, J. Jay and L.K. Rademacher, 2009: Sediment-driven mercury transport in post-fire storm runoff, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
183. He, M., T.S. Hogue, K. Franz, S.A. Margulis, and J.A. Vrugt, 2009: An Integrated Uncertainty Analysis and Ensemble-based Data Assimilation Framework for Operational Snow Forecasting, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
184. Kim, J. and T.S. Hogue, 2009: Derivation of High-resolution Soil Moisture Through Integration of MODIS and AMSR-E Products, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
185. Hogue, T.S. and J. Kim, 2009: Development and Validation of a MODIS-based Actual Evapotranspiration for Ecosystems in Semi-arid Regions, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
186. Wessel, C.J., O.J. Barco, and T.S. Hogue, 2009: Contaminant Flushing From An Urban Fringe Watershed: Insight Into Hydrologic and Soil Dynamics During the Wet Season, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
187. Hogue, T.S., M. Moldwin, P. Nonacs, J. Daniel, and R. Shope, 2009: Integrating long-term science projects into K-12 curriculum: Fostering teacher-student engagement in urban environmental research through an NSF UCLA GK-12 program, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
188. Barco, J., Gunawan, S., Wessel, C., H. Jung and T.S. Hogue, 2009: Storm to Seasonal Nitrate Flushing and Relationship to Hydroclimatic Conditions, AGU Spring National Meeting, Toronto, Canada, May.
189. Dulac, A., T.S. Hogue and K. Franz, 2008: Regional Parameter Sensitivity and Uncertainty Estimates for the NWS SACramento Soil Moisture Accounting Model (SAC-SMA), AGU Fall National Meeting, San Francisco, CA, December.
190. Gunawan, S., Barco, J., Hogue, T.S., 2008: Evaluating Stream Discharge–Concentration Relationships for a Range of Hydro-climatic Regimes. AGU Fall National Meeting, San Francisco, CA, December.
191. Weil, M., Barco, J., Hogue, T.S., 2008: Evaluation of Hydro-NEXRAD Products in Southern California. San Francisco, AGU Fall National Meeting, San Francisco, CA, December.
192. Barco, J., T.S. Hogue, M. Putti, M. Giroto, 2008: Linking Climate and Anthropogenic Signals with Groundwater Levels in a Southern California Watershed, AGU Fall National Meeting, San Francisco, CA, December.
193. Kim, J., and T.S. Hogue, 2008: Coupling NLDAS Model Output with MODIS Products for Improved Spatial Evapotranspiration Estimates, AGU Fall National Meeting, San Francisco, CA, December.
194. Kinoshita, A. and T.S. Hogue, 2008: Seasonal and Annual Variability of Hydrologic Fluxes in Post-fire Watersheds in Southern California, AGU Fall National Meeting, San Francisco, CA, December.
195. Moldwin, M., T. Hogue, P. Nonacs, R. Shope, and J. Daniel, 2008: Science and Engineering of the Environment of Los Angeles: A GK-12 Experiment at Developing Science Communication Skills in UCLA's Graduate Program, AGU Fall National Meeting, San Francisco, CA, December.
196. Jung, H., and T. S. Hogue, 2008: Integration Soft Data into Hydrologic Modeling to Improve Post-fire Parameter Estimates, AGU Fall National Meeting, San Francisco, CA, December.

197. Burke M., M. Ferreira, C.B. Mendez, B.I. Navarro, J.A. Jay, and T.S. Hogue, 2008: Spatial and Temporal Evolution on Mercury in Post-fire Soils in Southern California Watersheds, AGU Fall National Meeting, San Francisco, CA, December.
198. He, M., T.S. Hogue, K.J. Franz, and S. Margulis, 2008: Assessing Forecasting Uncertainties for Improved Snow Model Predictions, AGU Fall National Meeting, San Francisco, CA, December.
199. Kim, J., and T.S. Hogue, 2008: Downscaled Soil Moisture by Integration of MODIS and AMSR-E products. NASA Microwave Remote Sensing Workshop, Oxnard, CA.
200. Barco, J., K.M. Wong, T.S. Hogue and M.K. Stenstrom, 2007: Automatic Calibration Method for a Storm Water Runoff Model, AGU Fall National Meeting, San Francisco, CA, December.
201. Barco, J., L. Rademacher and T.S. Hogue, 2007: Seasonal and Interannual Variations of Stream Chemistry in an Urban Fringe Watershed in Southern California, AGU Fall National Meeting, San Francisco, CA, December.
202. Burke, M., B. Navarro, C. Mendez, S. Lopez, M. Ferreira, L. Rademacher, J. Jay and T.S. Hogue, 2007: Mercury Binding and Mobilization in Post-fire Soil Horizons, AGU Fall National Meeting, San Francisco, CA, December.
203. He, M., and T.S. Hogue, 2007: Predictive Modeling of Urbanization Impacts on Flow Regimes in a Semi-arid Watershed in Southern California, AGU Fall National Meeting, San Francisco, CA, December.
204. Hogue, T.S., K. Franz and J. Barco, 2007: Performance and Probabilistic Verification of Regional Parameter Estimates for Operational Forecasting Models, AGU Fall National Meeting, San Francisco, CA, December.
205. Jung, H., and T. S. Hogue, 2007: Investigating the Success of Parameter Estimation Routines in Modeling Watershed Behavior under Post-fire Conditions, AGU Fall National Meeting, San Francisco, CA, December.
206. Kim, J., R. Scott and T. S. Hogue, 2007: Development of a Remotely-sensed Soil Heat Flux Parameterization for Natural Landscapes in Semi-arid Regions, AGU Fall National Meeting, San Francisco, CA, December.
207. Hogue, T.S., K. Franz, S. Lopez and J. Barco, 2007: Addressing Parameter Uncertainty in Regional Forecast Basins Using Similarity Indices, HEPEX 3rd Annual Workshop, June.
208. Curto, V., Lopez, S., Barco J., Rademacher L., and T. Hogue, 2007: Characterizing Ecosystem and Watershed Response to Atmospheric Loading at the Urban Fringe, Society of Environmental Toxicology and Chemistry (SETAC) Annual Meeting, Lake Arrowhead, CA, April.
209. Burke, M.P., Lopez, S.R., Mendez, C., Jay, J.A., and T.S. Hogue, 2007: Mercury Partitioning and Mobilization in Recently Burned Soils, Society of Environmental Toxicology and Chemistry (SETAC) Annual Meeting, Lake Arrowhead, CA, April.
210. Lopez, S., C. Mendez, T. Hogue, and J. Jay, 2006: The Impact of Fire on Mercury Cycling in Watershed Systems, AGU Fall National Meeting, San Francisco, CA, December.
211. Kim, J., and T. Hogue, 2006: Remotely Sensed Potential Evaporation Estimates for Hydrologic Modeling, AGU Fall National Meeting, San Francisco, CA, December.
212. Jung, H., T. Hogue, L. Rademacher, T. Meixner, and S. Morrissey, 2006: Characterizing Post-fire Hydrologic Response Using End Member Mixing Analysis, AGU Fall National Meeting, San Francisco, CA, December.
213. Curto, V., S. Lopez, T. Hogue and L. Rademacher, 2006: Characterizing Ecosystem and Watershed Response of an Urban Fringe Watershed, AGU Fall National Meeting, San Francisco, CA, December.
214. Jung, H., T. Hogue, L. Rademacher, S. Morrissey, and T. Meixner, 2006: Using Stream Chemistry to Understand Watershed Dynamics, Southern California Academy of Science Annual Meeting, Malibu, CA, May.
215. Franz, K.J., T. S. Hogue, S. Sorooshian, 2005: Application of a Satellite Precipitation Product for Snow Modeling and Hydrologic Forecasting, AGU Fall National Meeting, San Francisco, CA, December.
216. Kim, J. and T. Hogue, 2005: MODIS-derived Potential Evapotranspiration Estimates for Operational Hydrologic Modeling, AGU Fall National Meeting, San Francisco, CA, December.
217. Kong, H., S. Morrissey, T. Hogue, L. Rademacher, and T. Meixner, 2005: A Multi-faceted Investigation of the Effects of Wildfire on a Southern California Watershed, AGU Fall National Meeting, San Francisco, CA, December.

218. Lopez, S.R., T. S. Hogue, S. Morrissey, L. Rademacher, H. Nation, V. Curto, A. Monterrosa, H. Kong, 2005 The Relationship Between Soil Type, Water Repellency, and Permeability in the San Bernardino Mountains, California, AGU Fall National Meeting, San Francisco, CA, December.
219. Meixner, T., M. Fenn, L. Rademacher, T. Hogue, H. Kong, S. Morrissey, 2005: Changes in Nutrient Concentrations after a Chaparral Wildfire, AGU Fall National Meeting, San Francisco, CA, December.
220. Morrissey, S.M., H. Kong, L. K. Rademacher, T. Hogue, T. Meixner, 2005: Soil hydrophobicity and permeability after the Old Fire in the San Bernardino Mountains, California, AGU Fall National Meeting, San Francisco, CA, December.
221. Nation, H.E., S. R. Lopez, A. Monterrosa, C. S. Khachikian, L. K. Rademacher, T. S. Hogue, 2005: Wildfire-Induced Changes in the Physico-Chemical Properties of Soils, and Their Implication in Watershed and Ecosystem Recovery, AGU Fall National Meeting, San Francisco, CA, December.
222. Hogue, T.S., L. Rademacher, T. Meixner, H. Kong, and S. Morrissey, 2005: Improving the understanding and prediction of post-fire hydrology, 2005: NWS Research to Operations Meeting, Park City, UT, October.
223. Franz, K.J., T.S. Hogue, and S. Sorooshian, 2005: Evaluating snow models for operational ensemble streamflow prediction, NWS Research to Operations Meeting, Park City, UT, October.
224. Kong, H., T. Hogue, S. Morrissey, L. Rademacher, S. Lopez, and T. Meixner, 2005: An Analysis of Hydrologic Response Following Wildfire in Southern California Watersheds, NSF-STC SAHRA Annual Meeting, Tucson, AZ, October
225. Kong, H., S. Morrissey, R. Santilena, T. Hogue, L. Rademacher, and T. Meixner, 2005: Effects of Wildfire on Flow Paths in San Bernardino Mountain Watersheds: Evidence from Hydrograph Separation and Geochemistry, CEA-CREST Annual Meeting, Pasadena, CA, May.
226. Aghnami, E., and T.S. Hogue, 2005: Development of an automatic calibration scheme for multi-level watersheds in the Colorado River basin, Preprint: Symposium on Living with a Limited Water Supply, AMS Annual Meeting, January 9-13, 2005.
227. Franz, K., T.S. Hogue, S. Sorooshian, 2005: Investigating hydrologic forecast model complexity, Symposium on Living with a Limited Water Supply, AMS Annual Meeting, January 9-13, 2005
228. Hogue, T.S., 2004: The Role of Hydrologic Models and New Observation Technologies in Watershed Assessment, Headwaters to Ocean Annual Meeting, Long Beach, CA, October 29.
229. Kong, H., S. Morrissey, E. Garcia, R. Santilena, T. Hogue, and L. Rademacher, 2004: The Impacts of Wildfire on the Urban-Wildland Interface: Towards Improved Hydrologic Understanding of Post-fire Processes, NSF-STC SAHRA Annual Meeting, Albuquerque, NM, October.
230. Yilmaz, K.K., H. V. Gupta, T.S. Hogue, K. Hsu, T. Wagener, and S. Sorooshian, 2004: How good are the satellite-based precipitation estimates for hydrologic prediction over the U.S.?, NSF-STC SAHRA Annual Meeting, Albuquerque, NM, October.
231. Franz, K.J., T.S. Hogue, and S. Sorooshian, 2004: Evaluation of snow model complexity within the NWS streamflow forecasting system, NSF-STC SAHRA Annual Meeting, Albuquerque, NM, October, 2004.
232. Yilmaz, K., J. Kim, T. Wagener, T.S. Hogue and H.V. Gupta, 2004: Modeling Ungauged Basins with the Sacramento Model, 4th MOPEX Workshop and Annual Meeting, Paris, France, July 2.
233. Santilena, R., S. Morrissey, E. Garcia, T. Hogue, and L. Rademacher, 2004: The Impacts of Wildfire on the Urban-Wildland Interface: Towards Improved Hydrologic Understanding of Post-fire Processes, CEA-CREST Annual Meeting, Pasadena, CA, May.
234. Hogue, T.S., 2004: Recent Developments in Automatic Calibration and Application to Hydrologic Modeling, Southern California Academy of Sciences Annual Meeting, Long Beach, CA, May 14th.
235. Schaake, J., Q. Duan, H. Gupta, A. Vasken, T. Wagener, G. Leavesley, T. Hogue, and A. Hall, 2004: Results of the Sapporo, 2003, MOPEX workshop and plans for the next workshop at CEMAGREF, Paris, July, 2004, EGU/AGU Spring Meeting, Nice, France, April.
236. Hogue, T.S., 2003: Evaluation of a Land-surface Model for Semi-arid Environments, AGU Annual Meeting, December.
237. Yilmaz, K.K., T.S. Hogue, K. Hsu, H.V. Gupta, S.E. Mahani, and S. Sorooshian, 2003: Satellite-based Rainfall Estimates for Basin-scale Hydrologic Modeling, AGU Annual Meeting, December.
238. Hogue, T.S., 2003: Evaluation procedures for land-surface models; a precursor to the PILPS semi-arid experiment, GLASS/PILPS San Pedro-Sevilleta Workshop, Tucson, AZ, August 25-29.
239. Bastidas, L., T.S. Hogue, H. Gupta, B. Nijssen, W. Emmerich, and E. Small, 2003: PILPS San Pedro-Sevilleta (Semi-arid) Experiment, GEWEX Americas Prediction Project (GAPP), Washington, July 21-24.

240. Hogue, T.S., H. Gupta, and S. Sorooshian, 2002: Recent Advancements in Automatic Calibration and Application to Hydrologic Modeling, Intergovernmental Hydrologic Modeling Conference, Las Vegas, NV, July 28-August 1.
241. Hogue, T. S., L. A. Bastidas, H.V. Gupta, S. Sorooshian, and W. Emmerich, 2002: Modeling of energy, water and carbon fluxes in semi-arid regions, AGU Spring Meeting, Washington, DC, May.
242. Gupta, H.V., L. A. Bastidas, T.S. Hogue, and S. Sorooshian, 2002: Evaluation of the carbon flux simulations over the Southwest U.S., GAPP Meeting - AMS, New Orleans, May 13-17.
243. Hogue, T. S., L. Bastidas, H.V. Gupta, and S. Sorooshian, 2001: Investigation of Carbon Flux Modeling Using Multi-criteria Calibration Techniques, American Geophysical Union Fall Meeting, San Francisco, CA, December.
244. Tomkins, C., T.S. Hogue, H.V. Gupta, and S. Sorooshian, 2001: Application of Multi-Step Automatic Calibration Scheme (MACS) to RFC Basins, American Geophysical Union Spring Meeting, Boston, MA, May.
245. Hogue, T. S., L. Bastidas, H. V. Gupta, and S. Sorooshian, 2001: Estimating Surface Carbon Fluxes Using Multi-objective Techniques, Global Energy and Water Cycle Experiment (GEWEX) 4th International Scientific Conference, Paris, France, September 10-14
246. Hogue, T. S., S. Sorooshian, and H. Gupta, 2000: Bridging the Gap between Research and Operations: Automatic Calibration of NWS River Forecast Models, NWS River Forecast Center Science Conference, NOAA Office of Hydrology, Silver Spring, MD, August 8-11.
247. Hogue, T. S., 2000: A Multi-step Calibration Scheme for River Forecasting Models, El Dia del Agua, Hydrology and Water Resources Departmental Symposium, University of Arizona, Tucson, AZ, April 5.
248. Hogue, T.S., Sorooshian, S., Gupta, H., Holz, A., and Braatz, D., 2000: Use of the NWSRFS OPT3 for Calibration of the SAC-SMA Model, Preprints: American Meteorological Society National Meeting, Special Symposium on Hydrology, Long Beach, CA, January, 119-122.
249. Holz, A., B. Connelly, D. Braatz, T. Hogue, and D. Boyle, 2000: Comparing Various Methods for the Regionalization of Model Parameters in the Sacramento Soil Moisture Accounting Model and Snow Accumulation Model, Preprints: American Meteorological Society National Meeting, Special Symposium on Hydrology, Long Beach, CA, January, 165-168.
250. Boyle, D. P., T.S. Hogue, H.V. Gupta, S. Sorooshian, and M.B. Smith, 2000: The Proper Role of Automatic Methods in Parameter Estimation, American Meteorological Society Annual Meeting, Long Beach, CA, January.
251. Hogue, T. S., H.V. Gupta, and S. Sorooshian, 1999: OPT3 Calibration of SAC-SMA and SNOW-17 Models for Basins in the NCRFC Region, NWS Multi-basin Calibration Workshop, Hydrologic Research Lab, National Weather Service Office of Hydrology, Silver Spring, MD, April.
252. Hartmann, H. C., T.C. Pagano, T.S. Hogue, A. Farid, A. Comrie, and S. Sorooshian, 1999: Teleconnections between Winter Circulation Patterns, Surface Climatology, and Vegetation Behavior in the Southwest U. S., Preprints: American Meteorological Society National Meeting, 11th Conference on Applied Climatology, Dallas, TX, January 167-174.
253. Hogue, T.S., S. Sorooshian, H.V. Gupta, and J. Ostrowski, 1998: Analysis of the National Weather Service Soil Moisture Accounting Model Utilizing Data from the Northeast Floods of January 1996, Preprints: American Meteorological Society National Meeting, Special Symposium on Hydrology, Phoenix, AZ, January, 252-255.
254. Hogue, T.S., S. Sorooshian, H.V. Gupta, and J. Ostrowski, 1998: Analysis of the National Weather Service Soil Moisture Accounting Model Utilizing Data from the Northeast Floods of January 1996, American Geophysical Union Spring Meeting, Boston, MA, May.
255. Hogue, T.S., and J.R. Tinker, 1995: Groundwater Modeling at Selected Waste Sites in St. Croix County, Wisconsin, Geological Society of America, Annual Meeting, New Orleans, LA, November.

### **SPONSORED RESEARCH PROJECTS**

1. Board of Forestry and Fire Protection Effectiveness Monitoring Committee, Fuel Treatments and Hydrologic Implications in the Sierra Nevada (PI Hogue, \$157k, 2 years). **CURRENT**
2. Revesco Corporation: South Platte River Restoration (PI Hogue; \$61k; 1 year). **CURRENT**
3. Los Angeles River Instream Flow Criteria: Technical Study (SCCWRP collaboration; CSM PI: Hogue, \$870k, 3 years). **CURRENT**
4. EPA National Priorities: Integrated decision support tools (i-DST) for life-cycle cost and performance assessment and optimization of green, grey, and hybrid stormwater infrastructure, (PI: Hogue, co-PIs:

- McCray, Higgins, Horvath (UC-Berkeley), Geza (SDSM), MacDonald (TNC), \$2.6M, 4 years),  
**COMPLETED**
5. The Nature Conservancy (TNC): Hydrologic Response and Modeling of the Ashland Forest Resilience Project (PI: Hogue; \$25k 1 year). **COMPLETED**
  6. CA State Water Board: Evaluating Stormwater Capture and Aquifer Recharge Through Development of a Coupled Surface-Groundwater Model in the Los Angeles Region: A Project Planning Tool (PI: Margulis (UCLA), co-PIs: Hogue (CSM), Nishikawa (USGS), CSM Portion: \$244k, 2 years),  
**COMPLETED**
  7. NSF Research Experience for Teachers (RET): WE<sup>2</sup>NG: Water Energy Education for the Next Generation (PI: Hogue, co-PI: Blaine, \$600,000, 4 years (w/NCE). **COMPLETED**
  8. USGS Trace Organic Contaminants (TOC) in Urban Stormwater and Performance of Urban Bioretention Systems: A Field and Modeling Study (PI: Higgins, co-PIs: Hogue, McCray, \$250,000, 3 years) **COMPLETED**
  9. CSM Foundation (Gift from ConocoPhillips): Center for a Sustainable WE<sup>2</sup>ST (PIs: McCray and Hogue, \$3M, 4 years), **CURRENT**
  10. The Nature Conservancy (TNC): Field Studies for Forest Fuel Treatments in Sagehen Creek Watershed (PI: Hogue, \$49,997, 4 years), **COMPLETED**
  11. NASA Terrestrial Hydrology: Development of Remote Sensing Products for Hydrologic Modeling and Operational Forecasting in the US, (CSM Hogue, \$226,013; PI: Franz (ISU), \$482,000, 3 years),  
**COMPLETED**
  12. Joint Fire Science Program (JFSP): Post-fire Water Quality: An Investigation of Determinants and Recovery Processes in Burned Watersheds across the Western U.S. (PI: Hogue, co-PI: McCray, \$344,000, 3 years) **COMPLETED**
  13. NSF CBET: WSC-Category 3: Collaborative: The role of local water resources in the water sustainability of Los Angeles (CSM Hogue, \$486,00; PI: Pataki (Univ. Utah), Hogue, Pincetl: co-PIs, \$1.5M, 4 years)  
**COMPLETED**
  14. City of Los Angeles Bureau of Sanitation, LA Clean Water Sustainability Analysis, (CSM Hogue, \$378,000, 3 years; PI: Mark Gold (UCLA), total \$0.9M) **COMPLETED**
  15. NSF RAPID: The 2013 Rim Fire: Survey of Potential Water Quality Impacts on the Hetch Hetchy Reservoir System (PI: Hogue, \$49,900, McCray, Sitchler, Higgins, Luthy (co-PIs), 1 year), **COMPLETED**
  16. UCAR COMET: Development and Assessment of Urban Parameterizations in the WRF-Hydro Framework (PI: Hogue, co-PI: Read, Gochis (NCAR), Salas (NOAA NWS Water Center), \$50,000, 1 year) **COMPLETED**
  17. NSF Hydrologic Sciences: A Community Workshop for Advancing Hydrometeorological-Hydroclimatic-Ecohydrological Process Understanding and Predictions (PI: Hogue, \$45,975, 1 year) **COMPETED**
  18. USGS Cooperative: Application of Remotely Sensed Data for Improved Regional and National Hydrologic Simulations (PI: Hogue, \$60,000, 1 year), **COMPLETED**
  19. Bella Vista Foundation: A Study on Forest Treatment and Water Yield in the Sierra Nevada Mountains, (PI: Hogue, \$40k, 1 year). **COMPLETED**
  20. NOAA UCAR: COMET: Integration of GOES Satellite-based Evapotranspiration Products in Operational Streamflow Forecasting (PI: Hogue, \$99K, 2 years). **COMPLETED**
  21. NSF Department of Undergraduate Education (DUE): Tipping the Balance to STEM Teaching: Recruiting and Supporting UCLA Undergraduates: Noyce Teacher Scholarships (PI: Rudnick, Co-PIs: Russell, Carter, Hogue, \$1.2M, 4 years). **COMPLETED**
  22. U.S. Department of Agriculture (DOA): United States Forest Service (USFS), BAER Modeling Toolkit, (PI: Hogue, \$82K, 2 years). **COMPLETED**
  23. NSF: Opening the Teaching Pipeline for UCLA Stem Majors (PI: Russell, Co-PIs: Hogue, Carter; \$149K, 3 years). **COMPLETED**
  24. Santa Monica Bay Restoration Commission: Contemporary and Historical Hydrologic Analysis of the Ballona Creek Watershed (PI: Hogue, \$109K, 2 years) **COMPLETED**
  25. NSF BCS: Long Term Ecological Research, Dynamics of urban ecosystem services and their relationship to ecohydrology: Exploratory study for a Los Angeles Urban Long-Term Research Area (LA-ULTRA), (PI: Pincetl, \$299K, Co-PIs: Pataki, T. Hogue, J. McFadden, C. Boone, 2 years),  
**COMPLETED**
  26. NSF Faculty Early CAREER award: CAREER: Investigation of Regional Land-Atmosphere Interactions in Semi-arid Cities Using the WRF-Noah-Urban Canopy Model, (PI: Hogue, \$487K, 5 years).  
**COMPLETED**

27. California Energy Commission, Global Climate Change Research Area of the Public Interest Energy Research (PIER) Program: Reductions in Urban Outdoor Water Use as an Adaptation to Rising Temperatures and Declining Water Supplies in Southern California (UCLA Hogue, \$85K PI: Pataki, UCI, 2 years;) **COMPLETED**
28. NSF GK-12 Program: UCLA SEE-LA, Science and Engineering of the Environment of Los Angeles (PI: Hogue, Co-PIs: Moldwin, Nonacs, 5 years (\$3M) **COMPLETED**
29. NOAA National Weather Service: Snow Data Assimilation in Operational Watershed Models for Short and Long-term Hydrologic Forecasting (PI: Hogue, \$285k, Co-PIs: Margulis, Franz) **COMPLETED**
30. NSF Hydrologic Sciences, RAPID: Investigation of Immediate Post-fire Hydro-geochemical Coupling and Contaminant Flux in an Urban-fringe Watershed in Southern California, (PI: Hogue, \$60K, 1 year). **COMPLETED**
31. NASA: Assimilation of MODIS Snow Cover Products into Operational Hydrologic Forecast Models (PI: Molotch, \$350K, Co-PIs: Hogue, Margulis and Franz , 3 years) **COMPLETED**
32. California Department of Water Resources: Ecosystem Values of Watersheds in Southern California (PI: Steele (LASGRWC), \$392K, co-PIs: Vos, Schilling, Pincetl, Hogue (UCLA) \$22K) **COMPLETED**
33. NASA JPL SURP Program: Evaluating the Impacts of Large-scale Urbanization on Regional Energy and Water Cycles using a Coupled Modeling and Remote Sensing Framework (PI: Hogue, \$49K, Co-PI: Margulis, 1 year) **COMPLETED**
34. UC Faculty Career Development Award: Urbanization in Malibu Creek Watershed, (PI: Hogue, \$3k, 1 year) **COMPLETED**
35. UC Faculty Grants Program: Field Investigations of Rapidly Urbanizing Watersheds in Southern California (PI: Hogue, \$10k, 1 year) **COMPLETED**
36. NASA JPL SURP Program: Characterizing Snowpack Accumulation and Melt and the Resulting Spring Streamflow in Sierra Basins using a Novel Data Assimilation and Modeling Approach (PI: Margulis, \$47K , Co-PIs: Hogue, Molotch, 1 year) **COMPLETED**
37. UC Office of Instructional Development: Development of a Water Resources Field Course in Civil and Environmental Engineering (CEE157M), (PI: Hogue, \$5K, 1 year) **COMPLETED**
38. California State Water Resources Control Board: Effect of Global Climate Change on the Extent and Distribution of Southern California's Coastal Wetlands (PI: Stein (SCCWRP), co-PI: Hogue, 2 years, UCLA Subcontract (Hogue), \$40K) **COMPLETED**
39. UC Toxics Substance Research and Teaching Program: Post-fire Mercury Mobilization, Methylation and Accumulation in a Drinking Water and Recreational Reservoir (PI: Jay, Co-PI: Hogue, 2 years, \$100K) **COMPLETED**
40. Calleguas Municipal Water District: Assessing Land Cover and Climate Variability on Calleguas Creek Watershed (PI: Hogue, 2 years, \$106K) **COMPLETED**
41. NSF Hydrologic Sciences: Wildfire Impacts on Catchment Hydrochemistry: Metal and Nutrient Transport after the Day Fire, 2006 (PI: Hogue, \$79k, Co-PI: Jay, 2 years) **COMPLETED**
42. UC Water Resources Center: Predicting the Impacts of Urbanization on Basin-scale Runoff and Infiltration in Semi-arid Regions (PI: Hogue, \$59K, 2 years) **COMPLETED**
43. UC Faculty Grants Program: Hydrologic Monitoring for Improved Understanding of Southern California Watershed Processes, (PI: Hogue, \$7K, 1 year) **COMPLETED**
44. NSF Science and Technology Center (SAHRA)-University of Arizona: The Impact of Wildfire on the Urban-Wildland Interface: Towards Improved Hydrologic Understanding of Post-fire Processes, (PI: Hogue, \$143K, 2 years) **COMPLETED**
45. UC Office of Instructional Development: Development of a Laboratory Component in Water Resources Engineering, (PI: Hogue, \$6K, 1 year) **COMPLETED**
46. NWS COMET Program (UCAR): Development of an Automatic Calibration Scheme for Colorado River Basin Forecasts (PI: Hogue, \$37K, 1 year) **COMPLETED**
47. NASA Terrestrial Hydrology: Operational Hydrology Modeling Improvements (PI: Hogue, \$192K, 3 years) **COMPLETED**