Terri S. Hogue, Ph.D.

Professor, Department of Civil & Environmental Engineering
Director, Hydrologic Sciences and Engineering Program
Director, Center for a Sustainable WE^2ST
Colorado School of Mines
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Research Interests

Urbanization and sustainability, climate variability and watershed response, catchment response to wildfire, modeling of watershed and snowmelt processes, development and application of remote sensing products.

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. May 1995.

Appointments

- **Colorado School of Mines** — Golden, CO
  Associate Professor — July 2012-present
- **Colorado School of Mines** — Golden, CO
  Director, Hydrologic Sciences and Engineering Program — Oct. 2014-present
- **Colorado School of Mines** — Golden, CO
  Vice Chair, CEE Department — July 2012-Aug. 2014
- **University of California, Los Angeles** — Los Angeles, CA
  Adjunct Associate Professor — July 2012-present
- **University of California, Los Angeles** — Los Angeles, CA
  Associate Professor — July 2009-June 2012
- **University of California, Los Angeles** — Los Angeles, CA
  Assistant Professor — July 2003-June 2009
- **University of Arizona** — Tucson, AZ
  Graduate Research Assistant, University of Arizona — August 1995-May 2003
- **Wisconsin Department of Natural Resources** — Eau Claire, WI
  Environmental Specialist — May 1994-June 1995

Awards, Honors, Elected and Selected Positions

- National Academies, Member on Board on Atmospheric Sciences and Climate, Oct. 2013-present
- American Geophysical Union, Hydrology Section Secretary, Jan. 2013-present (re-elected Oct. 2014)
- Speaker at "Hazards on the Hill" Event, U.S. Senate, September 2011
- AMS Journal of Hydrometeorology Editor's Award, 2011
- UCLA-HSSEAS Engineering Society Professor of the Year, 2010
- 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

- 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)
- 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 Affiliations and Service Activities

- National Committee Service:
  - AGU Council Task Force on Science Trends, April 2014-present
  - National Academies, BASC Member, October 2013-present
  - AGU Hydrology Section Secretary, 2013-present
  - 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
  - AGU Spring Meeting session Convener, 2002
  - MOPEX 3rd Annual Workshop Organizer, 2004, Paris, France.
- University Service:
  - CSM: 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: NSF (served on review panels in 2010, 2011, 2012), NASA, NOAA
- 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:

- Watershed Systems Modeling (CEEN 581; graduate elective)
- Mountain Snow Processes and Ecohydrologic Interactions (CEEN598A, graduate seminar)
- Hydrology and Water Resources Laboratory (CEEN 482, undergraduate environmental lab option)
- Environmental Engineering Laboratory (CEEN 303; co-taught, undergraduate)

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 Medelin, Columbia
2. Dr. Jongyoun Kim, 2009-2012, Research Scientist, Cal. Dept. Water Resources
3. Dr. Alicia Kinoshita, 2012-present, Postdoctoral Fellow, Colorado School of Mines

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: California Dept. Water Resources, Sacramento, 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: State of Washington Water Research Center, Pullman, WA
9. Pouya Vahmani, August, 2014: Post-doctoral Scholar, University of Southern California, Los Angeles, CA

Current:

1. Bryant Reyes (Fall 2012-present; exp. graduation May, 2016; co-advised w/ R. Maxwell)
2. Kim Manago (Spring 2013-present; exp. graduation May, 2016)
3. Kyle Knipper (Fall 2013-present)
4. Ashley Rust (Spring 2014-present)

5. Kim Slinski (Fall 2014-present; co-advised w/ J. McCray)
6. Chris Rubyal (Fall 2014-present; co-advised w/ J. McCray)
7. Melissa Valentin (Fall 2015-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. K. Radavich, Summer 2015

Current:

1. Samuel Saxe, Fall 2013-present
2. Jessie Shirley, Spring 2014-present
3. Ryan Logan, Fall 2014-present
4. Ella Walker, Fall 2014-present
5. Skylar Zilliox, Fall 2014-present (co-advised w/ J. Rolston)

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

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 Nasseri, Michael Weil, Rashmika Satyarthi, 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, Chelsea Panos, Flannery Dolan (2015-2016)

Refereed Journal Publications

In review

1. Walker, E.L., A.M. Anderson and **T.S. Hogue**, 2015: Water Use for Unconventional Energy Development in the South Platte River Basin, Colorado, *Environmental Science and Technology*
2. Knipper, K., **T.S. Hogue**, and A. Kinoshita, 2015: Evaluation of a MODIS Triangle-based Algorithm for Evapotranspiration Estimates in Sub-alpine Regions, *Journal of Applied Remote Sensing*
3. Kinoshita, A.M., A. Chin, G.L. Simon, C. Briles, **T.S. Hogue**, A.P. O'Dowd, A.K. Gerlak, A.U. Albornoz, 2015: Wildfire, Water, and Society: Toward Integrative Research in the "Anthropocene", *Anthropocene*.

Published (or in press)

1. Muhammad, B., **T.S. Hogue**, K. J. Franz and A. Kinoshita, 2015: Assessing Spatial Potential Evapotranspiration Estimates for Hydrologic Applications in the Upper Colorado River Basin, *JAWRA (in press)*
2. Vahmani, P., and **T.S. Hogue**, 2015: Urban Irrigation Effects on WRF-UCM Summertime Forecast Skill over the Los Angeles Metropolitan Area, *JGR Atmospheres,* DOI: 10.1002/2015JD023239
3. Reyes, B., R. Maxwell, and **T.S. Hogue**, 2015: Impact of lateral flow and spatial scaling on the simulation of semi-arid urban land surfaces in an integrated hydrologic and land surface model, *Hydrological Processes*, DOI: 10.1002/hyp.10683
4. Pincetl, S. and **T.S. Hogue,** 2015: California Drought-What Is Different Today? *Journal of Extreme Events,* doi:10.1142/S2345737615020029
5. **Hogue, T.S**. and S. Pincetl: 2015: Are you watering your lawn? High-resolution data may help to devise effective water conservation strategies in urban areas around the world, *Science*, 1319-1320.
6. Bowman, A.L., K.J. Franz, **T.S. Hogue**, and A.M. Kinoshita, 2015: MODIS-based potential evapotranspiration demand curves for the Sacramento Soil Moisture Accounting model, *Journal of Hydrologic Engineering,* 04015055, 1-13, doi:10.1061/(ASCE)HE.1943-5584.0001261
7. Pincetl, S., and **T.S. Hogue,** 2015: California's New Normal? Recurring Drought: Addressing Winners and Losers, *Local Environment: The International Journal of Justice and Sustainability,* 20:7, 850-854, DOI: 10.1080/13549839.2015.1042778
8. Kinoshita, A.M., and **T.S. Hogue**, 2015: Increased Dry Season Water Yield in Burned Watersheds in Southern California, *Environmental Research Letters,*10 014003, doi:10.1088/1748-9326/10/1/014003

9. Mini, C., **T.S. Hogue,** S. Pincetl, 2015: The effectiveness of water restriction policies on single-family water use in Los Angeles, California, *Resources, Conservation and Recycling,* 94, 136-145
10. Vahmani, P., and **T.S. Hogue**, 2014: High Resolution Land Surface Modeling Utilizing Remote Sensing Parameters and the Noah-UCM: A Case Study in the Los Angeles Basin, Hydrology and Earth System Science, *Hydrology and Earth System Science,* 18, 4791-4806.
11. Micheletty, P.D., A.M. Kinoshita, and **T.S. Hogue,** 2014: Application of MODSCAG and MODIS snow cover products in post-fire watersheds in the Sierra Nevada, *Hydrology and Earth System Science,* 18, 4601-4615.
12. Spies, R., K. Franz, **T.S. Hogue** and A. Bowman, 2014: Distributed hydrologic modeling using satellite-derived potential evapotranspiration, *Journal of Hydrometeorology,* doi: http://dx.doi.org/10.1175/JHM-D-14-0047.1
13. Franz, K.J., **T.S. Hogue**, B. Muhammad and M. He, 2014: Assessment of SWE Data Assimilation for Ensemble Streamflow Predictions, *Journal of Hydrology,* 519, 2737–2746.
14. Mini, C., **T.S. Hogue**, and S. Pincetl, 2014: Patterns and Controlling Factors of Residential Water Use in Los Angeles, California, *Water Policy*, 16, 1054-1069.
15. Vahmani, P., and **T.S. Hogue**, 2014: Incorporating an Urban Irrigation Module into a Noah LSM-SLUCM Modeling Framework, *Journal of Hydrometeorology,* doi:10.1175/JHM-D-13-0121.1
16. Mini, C., **T.S. Hogue**, S. Pincetl, 2014: Estimation of Residential Outdoor Water Use in Los Angeles, California, *Landscape and Urban Planning,* 127, 124-135.
17. Kinoshita, A.M., **T. S. Hogue** and C. Napper, 2014: Evaluating Pre- and Post-fire Peak Discharge Predictions across Western U.S. Watersheds, *Journal of the American Water Resources Association,* 50(6), 1540–1557, doi: 10.1111/jawr.12226
18. Kinoshita, A.M., **T.S. Hogue**, C. Wessel, and J. Barco 2013: Contaminant Flushing from an Urban-Fringe Watershed: Hydrologic and Riparian Soil Dynamics, *Environmental Earth Sciences,* doi: 10.1007/s12665-013-3011
19. Kim, J., and **T.S. Hogue**, 2013: Evaluation of a MODIS triangle-based evapotranspiration algorithm for semi-arid regions, *Journal of Applied Remote Sensing,* 7(1), doi: 10.1117/1.JRS.7.073493
20. Burke, M., **T.S. Hogue**, A. Kinoshita, J. Barco, C. Wessel, and E. Stein, 2013: Pre- and Post-fire Pollutant Loads in an Urban Fringe Watershed in Southern California, *Environmental Monitoring and Assessment,* 10.1007/s10661-013-3318-9.
21. Lopez, S.R, **T.S. Hogue**, and E. Stein, 2013: A Framework for Evaluating Regional Hydrologic Sensitivity to Climate Change using Archetypal Watershed Modeling, *Hydrology and Earth System Science,* 17, 3077-3094.
22. Stein, E.D, J. S. Brown, **T. S. Hogue**, M. P. Burke, and A. Kinoshita, 2012: Regional Patterns of Storm Water Contaminant Loading Following Southern California Wildfires, *Environmental Toxicology and* Chemistry, 31 (11), 2625-2638.
23. Kim, J., and **T.S. Hogue**, 2012: Evaluation and sensitivity testing of a coupled Landsat-MODIS downscaling method for land surface temperature and vegetation indices in semi-arid regions, *Journal of Applied Remote Sensing,* 6(1), 063569-1-17.
24. Barco, J., S. Gunawan**, and **T. S. Hogue**, 2012: Seasonal Controls on Stream Chemical Export Across Diverse Coastal Watersheds, Hydrological Processes, DOI: 10.1002/hyp.9294
25. He, M., **T.S. Hogue**, S. Margulis, and K. Franz, 2012: An Integrated Uncertainty and Ensemble-based Data Assimilation Framework for Operational Snow and Streamflow Predictions, *Hydrology and Earth System Science*, 16, 815–831.
26. Kim, J., and **T.S. Hogue**, 2012: Improving Spatial Soil Moisture Representation through Integration of AMSR-E and MODIS Products, *IEEE Transactions on Geoscience and* Remote Sensing, 50(2), 446-460.
27. He, M., and **T.S. Hogue**, 2012: Integrating Hydrologic Modeling and Land Use Projections for Evaluation of Hydrologic Response and Regional Water Supply Impacts in Semi-arid Environments, *Environmental Earth Sciences*, 65:1671–1685

28. Franz, K.J. and **T.S. Hogue**, 2011: Evaluating Uncertainty Estimates in Hydrologic models: Borrowing Measures from the Forecast Verification Community, *Hydrology and Earth System Science*, 15, 3367-3382.
29. He, M., **T.S. Hogue**, K Franz, J. Vrugt and S. Margulis, 2011: Corruption of parameter behavior and regionalization by model and forcing data errors: A Bayesian example using the SNOW17 model, *Water Resources Research*, 47(7), W07546, 10.1029/2010WR009753
30. Kinoshita, A.M, and **T.S. Hogue**, 2011: Spatial and Temporal Controls on Post-fire Hydrologic Recovery in Southern California Watersheds, *Catena*, 87, 240-252.
31. Pataki, D.E., C.G. Boone, **T.S. Hogue**, G.D. Jenerette, J.P. McFadden, and S. Pincetl, 2011: Socio-ecohydrology and the urban water challenge in the western U.S*., Ecohydrology,* 4, 341-347
32. He, M., **T.S. Hogue**, K.J. Franz, S.A. Margulis and J.A. Vrugt, 2010: Characterizing Parameter Sensitivity and Uncertainty for an Operational Snow Model across Hydroclimatic Regimes, *Advances in Water Resources,* 34 (1): 114-127
33. Barco, J., **T.S. Hogue**, M. Girotto, D.R. Kendall, and M. Putti, 2010: Climate Signal Propagation in Southern California Aquifers, *Water Resources Research*, 46, W00F05, doi:10.1029/2009WR008376.
34. Burke, M., **T.S. Hogue**, B. Navarro**, C.B. Mendez**, S. Lopez, M. Ferreira and J. Jay, 2010: The Effect of Wildfire on Soil Mercury Concentrations in Southern California Watersheds*, Water, Soil and Air Pollution,* 212(1-4): 369-385
35. Cydzik, K. and **T.S. Hogue**, 2009: Modeling Post-fire Response and Recovery using the Hydrologic Engineering Center Hydrologic Modeling System (HEC-HMS), *Journal of the American Water Resources Association,* 45(3):702-714.
36. Jung, H., **T.S. Hogue**, L. Rademacher, and T. Meixner, 2009: Impact of Wildfire on Source Water Contributions in Devil Creek, CA: Evidence From End-member Mixing Analysis, *Hydrologic Processes,* 23(2), 183-200.
37. Franz, K.J., T.S. Hogue, and S. Sorooshian, 2008b: Snow Model Verification Using Ensemble Streamflow Prediction and Operational Benchmarks, *Journal of Hydrometeorology,* 9(6), 1402-1415.
38. Barco, J., T**.S. Hogue**, V. Curto**, and L. Rademacher, 2008: Linking Hydrology and Stream Geochemistry in Urban Fringe Watersheds, *Journal of Hydrology,* 360, 31-47.
39. Franz, K.J., **T.S. Hogue,** and S. Sorooshian, 2008a: Operational Snow Modeling: Addressing the challenges of an energy balance model for National Weather Service forecasts, *Journal of Hydrology,* 360, 48-66.
40. Kim, J. and **T.S. Hogue**, 2008: Evaluation of a MODIS-based Potential Evapotranspiration Product at the Point-scale, *Journal of Hydrometeorology,* 9, 444-460.
41. Bastidas, L. A., **T. S. Hogue**, S. Sorooshian, H. V. Gupta, and W. J. Shuttleworth, 2006: Parameter sensitivity analysis for different complexity land surface models using multicriteria methods, *Journal of Geophysical Research,* 111, D20101, doi:10.1029/2005JD006377.
42. **Hogue, T. S**., L. A. Bastidas, H. V. Gupta, and S. Sorooshian, 2006b: Evaluating model performance and parameter behavior for varying levels of land surface model complexity, *Water Resources Research*, 42, W08430, doi:10.1029/2005WR004440
43. **Hogue, T.S**., H.V. Gupta, and S. Sorooshian, 2006a: A "User-Friendly" Approach to Parameter Estimation in Hydrologic Models, *Journal of Hydrology,* 320, 202–217.
44. Duan Q., J. Schaake, V. Andreassian, S. Franks, H.V. Gupta, Y.M. Gusev, F. Habets, A. Hall, L. Hay, **T.S. Hogue**, M. Huang, G. Leavesley, X. Liang, O.N. Nasonova J. Noilhan, L. Oudin, S. Sorooshian, T. Wagener, E.F. Wood, 2006: Model Parameter Estimation Experiment (MOPEX): Overview and Summary of the Second and Third Workshop Results, *Journal of Hydrology, 320, 3-17*.
45. Margulis, S.A, J. Kim, and **T.S. Hogue**, 2005: A Comparison of the Triangle Retrieval and Variational Data Assimilation Methods for Surface Turbulent Flux Estimation, *Journal of Hydrometeorology*, 6 (6), 1063–1072.
46. Yilmaz, K., **T.S. Hogue**, K. Hsu, S. Sorooshian, H.V. Gupta, and T. Wagener, 2005: Intercomparison of Rain Gauge, Radar and Satellite-based Precipitation Estimates with Emphasis on Hydrologic Forecasting, *Journal of Hydrometeorology,* 6 (4), 497–517. **(top 3 cited papers in journal)**

47. **Hogue, T.S**., L. A. Bastidas, H.V. Gupta, S. Sorooshian, K. Mitchell and W. Emmerich, 2005: Evaluation and Transferability of the Noah Land-surface Model in Semi-arid Environments, *Journal of Hydrometeorology*, 6(1), 68–84.
48. Sorooshian, S., M.P.L. Whitaker, and **T.S. Hogue**, 2002: Regional and Global Hydrology and Water Resource Issues: The Role of International and National Programs, Special Issue on Vulnerability of Water Resources, *Journal of Aquatic Sciences*, 64, 317-327
49. **Hogue, T.S**., S. Sorooshian, H. Gupta, A. Holz, and D. Braatz, 2000: A Multi-step Automatic Calibration Scheme for River Forecasting Models, Journal of Hydrometeorology, 1, 524-542.
50. Lesnefsky E.J., G.R Williams, J.R. Rubenstein, **T.S. Hogue,** L.D. Horwitz, and M.J. Reiter, 1991: Hydrogen Peroxide Decreases Effective Refractory Period in the Isolated Rabbit Heart, *Free Radical Biology and Medicine*, 11(6), 529-535.

Notes:
student author at the time of submission
*** designates undergraduate author*

Book Chapters, Reports, Other Publications

1. Kuklowsky, C. S. Pincetl, **T. S. Hogue** and C. Mini, 2014: Residential Water Consumption in Los Angeles: What are the Drivers and are Conservations Measures Working? A Policy Brief for the City of Los Angeles, June, 2014.
2. Pincetl, S. and **T.S. Hogue**, 2014: "What LA can do to prepare for a drier future?" LA Times Opinion Editorial, February 24, 2014.
3. Kinoshita, A.M., **T.S. Hogue**, C. Napper, 2013: A guide for pre- and post-fire modeling and application in the Western U.S. General Technical Report (GTR), USDA Forest Service. National Technology & Development Program, 2500-Watershed, Soil & Air Mgmt, 1325 1802-SDTDC, December 2013
4. Vahmani, P. and **T.S. Hogue**, 2013: Modelling and analysis of the impact of urban irrigation on land surface fluxes in the Los Angeles metropolitan area, IAHS Red Book Series Pub. 359-08, July 2013 **(Early Career Scientist Best Paper Award)**
5. Pincetl, S., G. Franco, N. Grimm, **T.S. Hogue**, S. Hughes, E. Pardyjak, A. Kinoshita, and P. Jantz, 2013: Urban Areas, in Assessment of Climate Change in the Southwest United States, eds, G. Garfin, A. Jardine, R. Merideth, M. Black and S. Leroy, A report by the Southwest Climate Alliance, Washington, D.C. Island Press.
6. Clark, J., M. Stamer, K. Cooper., C. Napper, **T. Hogue**, and A. Kinoshita, 2012.Evaluating Post-fire Vegetation Regeneration with Remote Sensing and Predicting Out-year Post-fire Watershed Response. Madrean Conference, Tucson, Arizona, May 1-5, 2012
7. Antos, Mike, **T.S. Hogue**, T. Longcore, S.J. Lee, A. Kinoshita, C. Milanes, K. Morris, S. Pincetl, F. Shilling, N.L.C Steele, R. Vos, B. Washburn, 2011: Assessing Ecosystem Values of Watersheds in Southern California. Los Angeles and San Gabriel Rivers Watershed Council, Los Angeles, CA.
8. Liu, S., **T. S. Hogue**, E.D. Stein, J. Barco, 2011: Contemporary and Historical Hydrologic Analysis of the Ballona Creek Watershed, Technical Report 683, Southern California Water Research Project, Costa Mesa, CA, December, 2011.
9. **Hogue, T.S**., 2009: Predicting the impacts of basin scale runoff and infiltration in semi-arid regions, Technical Completion Report Project No. WR1007, UC Water Resources Center, University of California.
10. Stewart, J.P., J. Hu, R.E. Kayen, A.J. Lembo, Jr, B.D. Collins, C. Davis, **T.S. Hogue**, and T.D. O'Rourke, 2008: Use of Airborne and Terrestrial Lidar to Detect Ground Displacement Hazards to Buried Pipelines, Final Report to Multi-Disciplinary Center for Earthquake Engineering Research, January 30, 2008.
11. **Hogue T**., K. Yilmaz, T. Wagener, and H. Gupta, 2006: Modeling Ungauged Basins with the Sacramento Model, IAHS Redbook Publication 307, 159-168.

12. Wagener, T., **T. Hogue**, J. Schaake, Q. Duan, H. Gupta, V. Andreassian, A. Hall and G. Leavesley, 2006: The Model Parameter Estimation Experiment (MOPEX): Its structure, connection to other international initiatives and future directions, IAHS Redbook Publication 307,339-346.
13. K.K. Yilmaz, H. Gupta, **T.S. Hogue**, K. Hsu, T. Wagener and S. Sorooshian, 2005: Evaluating the utility of satellite-based precipitation estimates for runoff prediction in ungauged basins, Regional Hydrological Impacts of Climatic Variability and Change—Impact Assessment and Decision Making, IAHS Pub. 295, 273-282.
14. **Hogue, T.S**., T. Wagener, J. Schaake, Q. Duan, A. Hall, H. Gupta, G. Leavesley, and V. Andreassian, 2004: A New Phase of the Model Parameter Estimation Experiment (MOPEX), EOS Transactions, AGU, 85 (22), 217-218.
15. **Hogue, T.S**., 2004: Flood Forecasting Methods in the United States and the United Kingdom, United Nations Environment Programme, Predicting the Impacts of Climatic Variability and Change on the Hydrology of the la Plata Basin, subcomponent of GEF Activity 2a Report, June 2004.
16. Gupta, H.V., S. Sorooshian, **T.S. Hogue**, and D. Boyle, 2003: Advances in Automatic Calibration of Watershed Models, in: Calibration of Watershed Models, AGU Water Science and Applications Series, Volume 6, 9-28.
17. **Hogue, T.S**., H.V. Gupta, S. Sorooshian, and C.D. Tomkins, 2003: A Multi-step Automatic Calibration Scheme for Watershed Models, in: Calibration of Watershed Models, AGU Water Science and Applications Series, Volume 6, 165-174.
18. 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.
19. **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.
20. **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.
21. 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. 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.
2. 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.
3. Mission and Aims of the ConocoPhillips Center for a Sustainable WE^2ST, GOT, Colorado School of Mines, October 28, 2014
4. Mission and Aims of the ConocoPhillips Center for a Sustainable WE^2ST, PTTC, Colorado School of Mines, September 18, 2014
5. Wildfires and forest treatment impacts on water yield and quality, Fire Ecosystem Forest Management & Water Yield Symposium, Sacramento, CA, May 2, 2014.
6. President's Distinguished Lecture Series, Alumni Weekend: Water Resources and Energy Development and Production: The WE2ST Center, Golden, CO, April 24, 2014.
7. Water & Cities, Water: Systems, Science and Society Symposium, Tufts University, Boston, MA, April 11, 2014
8. Anthropogenic Disturbance and Hydrologic Behavior: Case Studies in Southern California, University of Utah, GCSC Seminar Series, Salt Lake City, UT, April 1, 2014

9. Urbanization and Wildfire: Interactions with Water Resources, Water Infrastructure Network (WIN), Denver, CO, January 14, 2014.
10. Post-Fire Hydrologic Response and Recovery: Case Studies in California and Colorado, GSA Annual Meeting, Denver, CO, October, 2013.
11. Wildfires, Hydrologic Response and Urban Fringe Risk, Heiland Seminar, Geophysics Department, Colorado School of Mines, March 28, 2013.
12. Coming out of the Silo: Training a new breed of "Geoengiscists", Keynote Speaker, NSF Integrate Workshop, Colorado School of Mines, March 5, 2013.
13. Assessing Advances in Streamflow Forecasting Methods using Hindcasts and Probabilistic Verification, Symposium on Probabilistic Forecasting, American Meteorological Society, January 10, 2013
14. Investigations of Altered Hydrologic Cycles in Urban and Forest Systems, Hydrology Seminar Series, Stanford University, October 15, 2012
15. Wildfires in the Western US: Understanding and Predicting Hydrologic Response, Geology Seminar Series, University of Northern Colorado, September 14, 2012
16. An Investigation of Ballona Creek Watershed: Partitioning Native and Imported Source Contributions and their Uncertainties, Urban Wetlands Symposium, Loyola Marymount University, March 12, 2012
17. 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.
18. Evaluating Regional Watershed Sensitivity to Climate Change: Future Runoff and Sediment Variability in Southern California, Coastal Habitat Conservation in a Changing Climate:
19. 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
20. 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
21. 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
22. 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
23. Changes in Hydrologic Response and Fire Recovery, National Park Service-UCLA Climate Change Workshop, Los Angeles, CA, April 27, 2011.
24. BAER Hydrologic Modeling: Review of Watershed Models and Discussion: Bureau of Land Management BAER National Meeting, Lakewood, CO, June 7, 2011.
25. Wildfires in Southern California: Investigations on Short- and Long-term Hydrologic Response, UCLA Institute of the Environment and Sustainability (IoES) Seminar, April 19, 2011.
26. BAER Hydrologic Modeling Toolkit, Burn Area Emergency Response (BAER) Regional Meeting, Ogden, UT, Feb. 2, 2011
27. Regional Watershed Response Under Climate Variability, State of the Bay Conference, Los Angeles, CA, January, 2010
28. Wildfires in Southern California: Changing the Physical and Chemical Landscape, UCLA Extension, October, 2009.
29. Development of Satellite-based Evapotranspiration and Soil Moisture Estimates for Hydrologic Model Development and Validation, SAHRA Annual Meeting, Tucson, AZ, September, 2009.
30. Evaluating Hydro-chemical Response in Burned Watersheds in Southern California, Plant Sciences Department Seminar, University of California, Riverside, February, 2009.
31. 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
32. 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.

33. 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.
34. Hydrologic Tools and Products for Advancing Operational Forecast Systems, NOAA-NWS Hydrology Laboratory, Silver Spring, MD, March, 2008.
35. Southern California Wildfires: Linking the Physical and Chemical Response of Burned Watersheds, Engineering Department Seminar Series, University of California-Merced, Merced, CA, February, 2008.
36. Climate Change and the Impact on California Water Resources, Aquarium of the Pacific California and Global Climate Change Course, Long Beach, CA, October, 2007.
37. Toward Improved Understanding of Hydrologic Response in Altered Landscapes, Atmospheric and Geologic Sciences Seminar Series, Iowa State University, Ames, IA, September, 2007.
38. 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.
39. Much Ado About Water: Will the Tap Keep Flowing? Professor in the Union Talk, UCLA, November, 2005.
40. Reducing Uncertainty in Land-surface and Hydrologic Modeling, Department of Atmospheric and Oceanic Sciences Seminar Series, UCLA, March, 2005.
41. Developments in Optimization Techniques and Application to Hydrologic and Land-surface Modeling, Department of Civil and Environmental Engineering, University of Southern California, April, 2004
42. 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. 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.
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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.
9. 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.

10. 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.
11. 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
12. Hogue, T.S., A.M. Kinoshita, P. Micheletty, 2014: Wildfire Impacts on Snowmelt, Streamflow and Water Quality, San Juan Mining Conference, Creede, CO , April.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.

29. 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.
30. Barik, M.G., T.S. Hogue, K.J. Franz, and M. He, 2012: Evaluating a snow data assimiliation framework for streamflow forecasting applications using hindcast verification, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
31. 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.
32. Vahmani, P. and T.S. Hogue, 2012: Development of an Anthropogenic Soil Moisture Contribution Module in the NOAH-UCM for the Los Angeles Metropolitan Region, American Geophysical Union Fall National Meeting, San Francisco, CA, December.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.

46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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.
61. 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.
62. 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.

63. 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.
64. 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.
65. 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.
66. 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.
67. 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.
68. 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.
69. 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.
70. 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.
71. 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.
72. 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.
73. Barco, J., T.S. Hogue, M. Putti, M. Girotto, 2008: Linking Climate and Anthropogenic Signals with Groundwater Levels in a Southern California Watershed, AGU Fall National Meeting, San Francisco, CA, December.
74. 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.
75. 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.
76. 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.
77. 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.
78. 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.
79. 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.
80. 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.
81. 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.
82. 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.

83. 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.
84. 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.
85. 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.
86. 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.
87. 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.
88. 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.
89. 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.
90. 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.
91. 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.
92. Kim, J., and T. Hogue, 2006: Remotely Sensed Potential Evaporation Estimates for Hydrologic Modeling, AGU Fall National Meeting, San Francisco, CA, December.
93. 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.
94. 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.
95. 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.
96. 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.
97. Kim, J. and T. Hogue, 2005: MODIS-derived Potential Evapotranspiration Estimates for Operational Hydrologic Modeling, AGU Fall National Meeting, San Francisco, CA, December.
98. 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.
99. 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.
100. Meixner, T., M. Fenn, L. Rademacher, T. Hogue, H. Kong, S. Morissey, 2005: Changes in Nutrient Concentrations after a Chaparral Wildfire, AGU Fall National Meeting, San Francisco, CA, December.
101. 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.

102. 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.
103. 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.
104. 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.
105. 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
106. 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.
107. 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.
108. 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
109. 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.
110. 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.
111. 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.
112. 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.
113. 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.
114. 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.
115. 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.
116. 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.
117. Hogue, T.S., 2003: Evaluation of a Land-surface Model for Semi-arid Environments, AGU Annual Meeting, December.
118. 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.
119. 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.
120. 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.
121. 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.

122. 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.
123. 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.
124. 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.
125. 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.
126. 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
127. 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.
128. 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.
129. 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.
130. 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.
131. 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.
132. 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.
133. 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, January167-174.
134. 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.
135. 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.
136. 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.