

MATTHEW D. THERRELL

Curriculum Vitae

CURRENT POSITION

Professor
Department of Geography
University of Alabama
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RESEARCH AND TEACHING INTERESTS

Dendrochronology, Paleoclimatology, Water resources, human-environmental dynamics, Biogeography, Environmental Sustainability

EDUCATION

Ph.D. 2003 Environmental Dynamics, University of Arkansas, Fayetteville, Arkansas
Advisor: D.W. Stahle, Dissertation: *Tree-Rings, Climate, and History in Mexico*
M.A. 1996 Geography, University of Arkansas, Fayetteville, Arkansas
Advisor: D.W. Stahle, Thesis: *A Predictive Model for Locating Ancient Forests in the Cross Timbers of Osage County Oklahoma*
B.A. 1991 History, Huntingdon College, Montgomery, Alabama

PROFESSIONAL POSITIONS

2017- present Professor, Department of Geography, University of Alabama
2013-2017 Associate Professor, Department of Geography, University of Alabama
2007-2013 Assistant Professor, Department of Geography and Environmental Resources, Southern Illinois University
2005-2007 Postdoctoral Research Associate, Department of Environmental Sciences, University of Virginia
2003-2005 Visiting Assistant Professor, Department of Geography, The University of Iowa
1997 Lecturer, Department of Geography, University of Arkansas
1996-2003 Research Associate, Department of Geography, University of Arkansas
1993-1996 Research Assistant, Department of Geography, University of Arkansas
1991-1993 Field archaeologist, Panamerican Consultants, Inc., Tuscaloosa Alabama

RESEARCH FUNDING

Summary: From 1998-2018, I received over \$4 million in research grants comprising 20 grants from Federal, State or Foundation Sources.

External Awards

Title: Collaborative Research: P2C2--Paleo-Perspectives of Streamflow Variability for Southeastern Interstate Rivers

Funded by: National Science Foundation, Paleo Proxies of Climate Change Program
Period: 2018-2021
Amount: \$348,767
Contribution: co-PI

Title: Increasing community resilience in coastal watersheds of Alabama by risk assessment of past, present and future trends in hydrologic and hydroclimatic extremes
Funded by: Environmental Protection Agency, Gulf of Mexico Program
Period: 2018-2021
Amount: \$299,215
Contribution: PI

Title: Collaborative Research: Phase II Paleoflood Investigations along the Middle Tennessee River
Funded by: Electric Power Research Institute
Period: 2017-2018
Amount: \$177,839
Contribution: co-PI

Title: Collaborative Research: Phase I Paleoflood Investigations along the Middle Tennessee River
Funded by: Electric Power Research Institute
Period: 2016-2017
Amount: \$74,529
Contribution: co-PI

Title: Assessing Past, Present and Future Drought and Floods in Coastal Mississippi and Alabama
Funded by: Mississippi-Alabama Sea Grant Consortium (NOAA)
Period: 2014-2016
Amount: \$130,000
Contribution: co-PI

Title: Analyzing Extreme Hydroclimate Events in Alabama Watersheds
Funded by: Alabama Geological Survey
Period: 2014-2015
Amount: \$52,282
Contribution: co-PI

Title: Tree-Ring Reconstruction of Flood Dynamics on the Mississippi River and Principal Tributaries
Funded by: National Science Foundation, Geography and Spatial Sciences Program
Period: 2014-2017
Amount: \$296,876
Contribution: PI

Title: Site: Convergence Ecology - Research Experience for Undergraduates in Ecological Diversity Across Systems and Disciplines
Funded by: National Science Foundation, REU Program
Period: 2013-2016
Amount: \$357,755
Contribution: senior personnel

Title: Catalyzing International Partnerships in Community-related Environmental and Sustainability Research and Education: Ethical, Structural and Institutional Issues of Collaboration
Funded by: National Science Foundation, Office of International Science and Engineering
Period: 2012-2014
Amount: \$ 20,000.00
Contribution: co-PI

Title: Tree Ring Studies of Hydroclimatic Variability in Tropical Southern Africa
Funded by: National Science Foundation, Paleo Proxies of Climate Change Program
Period: July 2010-June 2013
Amount: \$252,127
Contribution: PI

Title: Southern IL GIS mapping for next generation 911 based on NENA standard data formats
Funded by: Counties of Southern Illinois, LLC
Period: August 2010-August 2012
Amount: \$70,380.54
Contribution: co-PI

Title: Track 1: Southern Illinois Undergraduate Recruitment and Retention in Geoscience Education (SURRGE)
Funded by: National Science Foundation, Geosciences Program
Period: July 2009-June 2011
Amount: \$186,439
Contribution: co-PI

Title: IRES: US-South Africa International Research Experience for Students -- Impacts of Disturbance on Above- and Below-ground Structure of Southern African Savannas
Funded by: National Science Foundation, Office of International Science and Engineering
Period: 2006-2009
Amount: \$150,000
Contribution: Funded collaborator

Title: Enhancing Collaborative Research on Past Climate Variability in Southern Africa
Funded by: IGBP PAGES Programme
Period: 2006
Amount: \$2,000
Contribution: PI

Title: Climate Reconstruction and Analysis using Tree-Ring Data from Ancient Forests of Mexico and the Southern USA
Funded by: National Science Foundation, Earth System History Program
Period: 2004-2008
Amount: \$470,000
Contribution: co-PI

Title: Hydroclimatic Reconstruction and Ancient Blue Oak Mapping Over the Drainage Basin of San Francisco Bay
Funded by: CALFED Ecosystems Restoration Program
Period: 2003-2008
Amount: \$748,000
Contribution: co/author, funded collaborator

Title: Prehispanic Dendrochronology in Mexico
Funded by: National Geographic Society Committee for Research and Exploration
Period: 2003
Amount: \$17,000
Contribution: Author/co-PI

Title: Doctoral Dissertation Research: Tree Rings, Climate, and History in Central Mexico
Funded by: National Science Foundation, Geography and Regional Science Program: DDI
Period: 2003-2004
Amount: \$8,000
Contribution: Author/co-PI

Title: Tree-Ring Records of Regional Climate and Large-Scale Atmospheric Circulation
Funded by: National Science Foundation, Paleoclimate Program
Period: 2000-2004
Amount: \$437,000
Contribution: co-PI

Title: The Ancient Cross Timbers Project
Funded by: The McGee Foundation, Oklahoma City
Period: 1998-2001
Amount: \$85,000
Contribution: co-PI

INTERNAL AWARDS

Title: Understanding Paleo-Cyclone Activity through Tree-rings and Oxygen Isotopes
Funded by: UA RGC
Period: May 2018-Sep 2019
Amount: \$6,000
Contribution: PI

Title: Campus Sustainability Intern Program
Funded by: SIU 'Green Fund'
Period: June 2012-August 2013
Amount: \$18,468
Contribution: PI

Title: Analysis of Paleoflood Impacts Along the Mississippi River Using Dendrochronology
Funded by: SIU Research-Enriched Academic Challenge (REACH) Program
Period: 2011-2012
Amount: \$1,500
Contribution: Faculty Advisor (Christopher Peters)

Title: Campus Sustainability Intern Program
Funded by: SIU 'Green Fund'
Period: June 2011-August 2012
Amount: \$25,007
Contribution: PI

Title: Egyptian High School Summer Enrichment Program
Funded by: SIU College of Education and Human Services
Award Period: August 2011
Amount: \$3,389
Contribution: Funded collaborator

Title: Southern Illinois University Climate Assessment
Funded by: SIU 'Green Fund'
Period: June 2010-August 2011
Amount: \$8,000
Contribution: co-PI

Title: Campus Sustainability Project Intern Program
Funded by: SIU 'Green Fund'
Period: June 2010-August 2011
Amount: \$25,007
Contribution: PI

Title: Green Roof Installation – Learning and Research
Funded by: SIU 'Green Fund'
Period: June 2010-August 2011
Amount: \$20,000
Contribution: co-PI

Title: Support for Sustainable Vegetable Production
Funded by: SIU 'Green Fund'
Period: June 2010-August 2011
Amount: \$7,886.50

Contribution: co-PI

Title: "Technology for Problem Based Inquiry"
Funded by: Undergraduate Student Technology Fee Proposal, SIUC
Period: 2009-2010
Amount: \$3,345.00
Contribution: PI

Title: Tree-Ring Research in Southern Africa
Funded by: SIU Office of Research Development and Administration
Period: 2008-2009
Amount: \$22,533
Contribution: PI

Title: Development and Delivery of Thematically Integrated Courses in Meteorology and Climate
Funded by: SIU Excellence Through Commitment Undergraduate Teaching Enhancement Award
Award Period: May-June 2008
Amount: \$6,333
Contribution: Co-PI

PUBLICATIONS

Summary: Over 50 peer-reviewed journal publications and more than 40 other refereed publications. Google Scholar profile: *h*-index 29, *i10*-index 42, >4,000 citations

Articles in Professional Journals *corresponding or advisee co-author

58. Vines, M., G. Tootle, L. Terry, E. Elliott, J. Corbin, G.L. Harley, J. Kam, S. Sadeghi, M. **Therrell***, 2021. A Paleo Perspective of Alabama and Florida (USA) Interstate Streamflow *Water* 13, no. 5: 657. doi.org/10.3390/w13050657
57. Lombardi, R., L. Davis, M. **Therrell**. 2021. Flood Variability Across Europe and North America in the Common Era. *Physical Geography*. doi.org/10.1080/02723646.2021.1890894
56. **Therrell**, M.D., E. Elliott, M. Meko, J.C. Bregy, C. Tucker, G.L. Harley, J. Maxwell, G. Tootle. 2020. Streamflow variability and false ring formation in bald cypress (*Taxodium distichum*). *Forests*. 11(10), 1100; doi.org/10.3390/f11101100
55. Au, T.F. J.T. Maxwell, K.A. Novick, S.M. Robeson, B.R. Lockwood, S.M. Warner, G.L. Harley, R.P. Phillips, M.D. **Therrell**, F.W. Telewski, N. Pederson. 2020. Mesophication of tree species increases impact of drought on tree growth by altering seasonality of climate response in eastern US forests. *Ecography*. doi.org/10.1111/ecog.05055
54. Lombardi, R., L. Davis, G. Stinchcomb, S. Munoz, L. Stuart, M. **Therrell**. 2020. Fluvial activity in major river basins of the eastern U.S. during the Holocene. *The Holocene*. doi.org/10.1177/0959683620919978

53. Villanueva-Díaz, J., D. Stahle, M. **Therrell**, L. Beramendi-Orosco, J. Estrada-Ávalos, A. Martínez-Sifuentes. 2020. The climatic response of baldcypress (*Taxodium mucronatum* Ten.) in San Luis Potosi, Mexico. *Trees*, (77) .
52. Meko*, M.D., M.D. **Therrell**. 2020. A record of flooding on the White River, Arkansas derived from tree-ring anatomical variability and vessel width. *Physical Geography*, 41(1) 83-98.
51. Sadeghi, S., G. Tootle, E. Elliott, V. Lakshmi, M. **Therrell**, A. Kalra. 2019. Implications of the 2015-2016 El Niño on Coastal Mississippi-Alabama Streamflow and Agriculture. *Hydrology*. 6. (43) 96.
50. Remane*, I.A.D., M.D. **Therrell**. 2019. Tree-ring analysis for sustainable harvest of *Millettia stuhlmannii* in Mozambique. *South African Journal of Botany*. 125: 120-125.
49. Sadeghi, S., E. Elliott, V. Lakshmi, M. **Therrell**, J. Kam, B. Bearden. 2019. Atlantic Ocean Sea Surface Temperatures and Southeast United States Streamflow Variability: Associations with the Recent Multi-decadal Decline. *Journal of Hydrology* 576: 422-429 doi.org/10.1016/j.jhydrol.2019.06.05148.
48. Strange, B., J. Maxwell, S. Robeson, G. Harley, M. **Therrell**, and D. Ficklin. 2019. Comparing Three Approaches to Reconstructing Streamflow Using Tree Rings in the Wabash River Basin in the Midwestern, US. *Journal of Hydrology*, 53: doi: 10.1016/J.JHYDROL.2019.03.057
47. Munoz, S., L. Giosan, M. **Therrell**, J. Remo, Z. Shen, R. Sullivan, et al., 2018. Mississippi River flood hazard amplified by climate variability and river engineering. *Nature*. 556: 95-98. doi:10.1038/nature26145.
46. Remo, J., J. Ryherd, C. Ruffner, M. **Therrell** 2018. Temporal and spatial patterns of sedimentation within the batture lands of the middle Mississippi River, USA. *Geomorphology*, 308(48) 129-141.
45. Remo, J., B. Ickes, J. Ryherd, R. Guida, M. **Therrell**. 2018. Assessing the impacts of dams and levees on the hydrologic record of the Middle and Lower Mississippi River, USA. *Geomorphology*, (57) doi.org/10.1016/j.geomorph.2018.01.004
44. **Therrell**, M.D., B.S. Mozayan, M.D. Gage. 2017. *The hunt for Ft. Armstrong: Dendroarchaeology at Snow Hill Plantation, Cherokee County, Alabama, U.S.A.* *Dendrochronologia*. 43: 59-65. doi.org/10.1016/j.dendro.2017.02.001
43. Remane*, I.A.D., M.D. **Therrell**. 2015. Dendrochronological Potential of *Millettia stuhlmannii* in Mozambique. *Trees*. 29(3): 729-736. doi: 10.1007/s00468-014-1150-7.
42. Stahle, D.W., J.R. Edmondson, J.N. Burns, D.K. Stahle, D.J. Burnette, E. Kvamme, C. Lequesne, M.D. **Therrell**. 2015. Bridging the gap with subfossil Douglas-fir at Mesa Verde, Colorado *Tree Ring Research*. 71(2): 53-66.
41. **Therrell**, M.D., M.B. Bialecki*. 2015. A multi century tree-ring record of spring flooding on the Mississippi River. *Journal of Hydrology* 529: 490-498. doi:10.1016/j.jhydrol.2014.11.005
40. Schoof, J.T., Z.A. Heern, M.D. **Therrell**, J.W.F. Remo. 2014. Assessing trends in lower tropospheric heat content in the Central USA using equivalent temperature. *Journal of Climatology*. doi:10.1002/joc.4175
39. Garstang, M., A. Coleman, M. **Therrell** 2014. Climate and the Mfecane. *South African Journal of Science*. 110(5/6): 106-112. doi.org/10.1590/sajs.2014/20130239.

38. Considine, C.D., J.W. Groninger, C.M. Ruffner, M.D. **Therrell**, S.G. Baer. 2013. Black oak sand savanna stand structure as related to fire history. *Natural Areas Journal*. 33(1): 10-20.
37. Fisher, S.M., J.T. Schoof, C.L. Lant, M.D. **Therrell**. 2013. The effect of geographical distribution on the reliability of wind energy. *Applied Geography*. 40: 83-89.
36. Romano*, A.J., M.D. **Therrell**, J. Schoof, D.J. Gibson. 2013. Response of non-native invasive plants to large scale wind damage. *Natural Areas Journal*. 33(3): 307-315.
35. Stahle D.W., R.D. Griffin, M.D. **Therrell**, J.R. Edmondson, M.K. Cleaveland, L.N. Stahle, D.J. Burnette, J.T. Abatzoglou, K.T. Redmond, D.M. Meko, M.D. Dettinger, D.R. Cayan. 2013. The Ancient Blue Oak Woodlands of California: Longevity and Hydro-Climatic History. *Earth Interactions*. doi.org/10.1175/2013EI000518.1
34. **Therrell**, M.D., D.W. Stahle, 2012. Tree-Ring Dating of an Arkansas Antebellum Plantation House. *Tree-Ring Research* 68(1): 59-68.
33. Stahle, D.W., J. Villanueva Diaz, D. Burnette, J. Cerano Paredes, R.R. Heim Jr., F. Fye, R. Acuna Soto, M. **Therrell**, M.K. Cleaveland, D. Stahle, 2011. Major Mesoamerican Droughts of the Past Millennium. *Geophysical Research Letters* 38: L05703, doi:10.1029/2010GL046472.
32. **Therrell**, M.D., 2011. "Ancient Trees Reveal their Secrets" *Nature Climate Change* 1: 94-95. (News and Views).
31. **Therrell**, M.D., M. Trotter*. 2011. Waniyetu Wówapi: Native American Records of Weather and Climate. *Bulletin of the American Meteorological Society* 92: 583-592.
30. Stahle, D.W., R.D. Griffin, M.K. Cleaveland, J.R. Edmondson, F.K. Fye, D.J. Burnette, J.T. Abatzoglou, K.T. Redmond, D.M. Meko, M.D. Dettinger, D.R. Cayan, M.D. **Therrell** 2011. A Tree Ring Reconstruction of the Salinity Gradient in the Northern Estuary of San Francisco Bay. *San Francisco Estuary & Watershed Science* 9(1). Retrieved from: <http://escholarship.ucop.edu/uc/item/5cz3q8v4>.
29. Stahle, D.W., M.K. Cleaveland, H.D. Grissno Mayer, R.D. Griffin, F.K. Fye, M.D. **Therrell**, D.J. Burnette, D.M. Meko, J. Villanueva Diaz. 2009. Cool- and Warm Season Precipitation Reconstructions over Western New Mexico. *Journal of Climate* 22: 3729-3750.
28. **Therrell**, M.D., D.W. Stahle, M. Mukelabai, H.H. Shugart, 2007. Age, and radial growth dynamics of *Pterocarpus angolensis* in southern Africa. *Forest Ecology and Management* 244: 24-31.
27. Villanueva Díaz, J., D.W. Stahle, B.H. Luckman, J. Cerano Paredes, M.D. **Therrell**, R. Morán Martínez, M.K. Cleaveland, 2007. Potential for dendrochronology of *Taxodium mucronatum* Ten. and its conservation in Mexico. *Ciencia Forestal en Mexico* 32(101): 9-37.
26. Villanueva-Diaz, J., D.W. Stahle, B.H. Luckman, J. Cerano-Paredes, M.D. **Therrell**, M.K. Cleaveland, E. Cornejo-Oviedo, 2007. Winter-spring precipitation reconstructions from tree rings for northeast Mexico. *Climatic Change* 83: 117-131.
25. Le Quesne, C., D.W. Stahle, M.K. Cleaveland, M.D. **Therrell**, J.C. Aravena, and J. Barichivich. 2006. Ancient *Austrocedrus* Tree-Ring Chronologies Used to Reconstruct Central Chile Precipitation Variability from a.d. 1200 to 2000. *Journal of Climate* 19: 5731-5744.
24. **Therrell**, M.D., D.W. Stahle, L.P. Ries, H.H. Shugart, 2006. Two Centuries of Tree-Ring Reconstructed Rainfall Variability in Zimbabwe. *Climate Dynamics* 26: 677-685.
23. **Therrell**, M.D., D.W. Stahle, J. Villanueva Diaz, E.H. Cornejo Oviedo, M.K. Cleaveland,

2006. Tree-ring reconstructed maize yield in central Mexico: 1474-2001. *Climatic Change* 74: 493-504.
22. Acuña Soto, R., D.W. Stahle, M.D. **Therrell**, S. Gomez Chavez, M.K. Cleaveland, 2005. Drought, epidemic disease, and the fall of classic period cultures in Mesoamerica (AD 750-950). *Medical Hypotheses* 65: 405-409.
 21. Griffin, R.D., D.W. Stahle, M.D. **Therrell**, 2005. Repeat Photography in the Ancient Cross Timbers of Eastern Oklahoma. *Natural Areas Journal* 25: 176-182.
 20. **Therrell**, M.D., 2005. Tree-Rings and 'El Año del Hambre' in Mexico. *Dendrochronologia* 22: 203-207.
 19. Villanueva Diaz, J., B. Luckman, D.W. Stahle, M.D. **Therrell**, M.K. Cleaveland, J. Cerano Paredes, G. Gutierrez Garcia, J. Estrada Avalos, R. Jasso Ibarra, 2005. Hydroclimatic variability of the upper Nazas basin: Water management, implications for the irrigated area of the Comarca Lagunera, Mexico. *Dendrochronologia* 22: 215-223.
 18. Acuña Soto, R., D.W. Stahle, M.D. **Therrell**, R.D. Griffin, M.K. Cleaveland, 2004. When half the population died: the epidemic of hemorrhagic fevers of 1576 in Mexico. *FEMS Microbiology Letters* 240(1): 1-5.
 17. **Therrell**, M.D., D.W. Stahle, R. Acuña Soto, 2004. Aztec drought and the 'Curse of One Rabbit.' *Bulletin of the American Meteorological Society* 85: 1263-1272.
 16. Cleaveland, M.K., D.W. Stahle, M.D. **Therrell**, J. Villanueva Diaz, B.T. Burns, 2003. Tree-ring reconstructed winter precipitation and tropical teleconnections in Durango, Mexico. *Climatic Change* 59: 369-388.
 15. Druckenbrod D.L., M.E. Mann, D.W. Stahle, M.K. Cleaveland, M.D. **Therrell**, H.H. Shugart, 2003. Late-Eighteenth-Century precipitation reconstructions from James Madison's Montpelier Plantation. *Bulletin of the American Meteorological Society* 84: 57-71.
 14. Pohl, K., M. **Therrell**, J. Santiago Blay, N. Ayotte, S. Bernal Salazar, J. Cabrera Hernandez, S. Castro-Diaz, A. Elvir, M. Gonzales Elizondo, D. Opland, J. Park, G. Pederson, L. Vazquez Salem, D.W. Stahle, 2003. A cool-season precipitation reconstruction for Saltillo, Mexico. *Tree-Ring Research* 59(1): 11-19.
 13. Villanueva Diaz, J., A. Hernandez Reyna, F. Garcia Sanchez, E.H. Cornejo Oviedo, D.W. Stahle, M.D. **Therrell**, M.K. Cleaveland, 2003. Structural analysis of a baldcypress (*Taxodium mucronatum* Ten.) stand in Los peroles, San Luis Potosi, Mexico. *Ciencia Forestal* 28(94): 57-79.
 12. Villanueva Díaz, J., D.W. Stahle, M.D. **Therrell**, M.K. Cleaveland, F. Camacho Morfín, P. Núñez Díaz, J. Armando Ramírez Garcia, J. Sánchez Sesma. 2003. Registros climáticos de los ahuehuetes de Chapultepec en los últimos cuatro siglos. *Boletín Historico del Agua* 23: 34-43.
 11. Acuña Soto, R., D.W. Stahle, M.K. Cleaveland, M.D. **Therrell**, 2002. Megadrought and megadeath in 16th century Mexico. *Emerging Infectious Diseases* 8: 360-362.
 10. Díaz, S.C., M.D. **Therrell***, D.W. Stahle, M.K. Cleaveland. 2002. Chihuahua winter-spring rainfall reconstructed from tree-rings: 1647-1992. *Climate Research* 22: 237-244.
 9. **Therrell**, M.D., D.W. Stahle, M.K. Cleaveland, J. Villanueva Diaz, 2002. Warm season tree growth and precipitation over Mexico. *Journal of Geophysical Research* 107: 4205-4212.
 8. Meko, D.M., M.D. **Therrell**, C.H. Baisan, M.K. Hughes, 2001. Sacramento River flow reconstructed to A.D. 869 from tree rings. *Journal of the American Water Resources Association* 37: 1029-1039.

7. Stahle, D.W., M.D. **Therrell**, M.K. Cleaveland, D.R. Cayan, M.D. Dettinger, N. Knowles, 2001. Ancient blue oak reveal human impact on San Francisco Bay salinity. *Eos* 82(12): 141, 144-145. Reprinted in *Earth in Space*, April 2001.
6. Stahle, D.W., E.R. Cook, M.K. Cleaveland, M.D. **Therrell**, D.M. Meko, H.D. Grissino Mayer, E. Watson, B.H., Luckman, 2000. Tree-ring data document 16th century megadrought over North America. *Eos* 81(12): 212, Reprinted in *Earth in Space*, March 2000.
5. **Therrell**, M.D., 2000. The historic and paleoclimatic significance of log buildings in southcentral Texas. *Historical Archaeology* 34(2): 25-37.
4. Villanueva Diaz, J., D.W. Stahle, M.K. Cleaveland, M.D. **Therrell**, 2000. Estado actual de la dendrochronologia en Mexico. *Ciencia Forestal* 25(88): 5-36.
3. Stahle, D.W., M.K. Cleaveland, D.B. Blanton, M.D. **Therrell**, D.A. Gay, 1998. The Lost Colony and Jamestown Droughts. *Science* 280: 564-567.
2. Stahle, D.W., R.D. D'Arrigo, M.K. Cleaveland, E.R. Cook, R.J. Allan, J.E. Cole, R.B. Dunbar, M.D. **Therrell**, D.A. Gay, M.D. Moore, M.A. Stokes, B.T. Burns, J. Villanueva Diaz, L.G. Thompson, 1998. Experimental dendroclimatic reconstruction of the Southern Oscillation. *Bulletin of the American Meteorological Society* 79: 2137-2152.
1. **Therrell**, M.D., D.W. Stahle, 1998. A predictive model to locate ancient forests in the Cross Timbers of Osage County, Oklahoma. *Journal of Biogeography* 25: 847-854.

Books/Technical bulletins

- Davis, L., Lombardi, R., Gage, M., **Therrell**, M., Stinchcomb, G., Stewart, C., Leigh D., Milewski, A., Speakman, R., Tran, L. Cyr, H., Horn, S., and McKay, L., 2017. Paleoflood evidence of past flooding events: investigation into the available sources of paleoflood evidence in humid environments. Electric Power Research Institute, Palo Alto, CA: <https://www.epri.com/-/pages/product/3002010667/>.
- Therrell**, M., Senkbeil, J. 2016. Lab manual for UA GY 101 *Atmospheric Process and Patterns*. 1st edition. Published by McGraw Hill. 69 pp. ISBN- 9781260040432.
- Villanueva Diaz, J., J. Cerano Paredes, B.H. Luckman, J. Estrada Avalos, D.W. Stahle, I. Sanchez Cohen, M.D. **Therrell**, R. Moran Martinez. 2006. *Precipitation y flujo historico de la Cuenca Nazas-Aguanaval e impacto en la agricultura*, Centro Nacional de Investigacion Disciplinaria en Relacion Agua-Suelo-Planta-Atmosfera, Folleto Cientifico 19.
- Villanueva Diaz, J., J. Cerano Paredes, D.W. Stahle, M.D. **Therrell**, L. Vazquez Selem, R. Moran Martinez, B.H. Luckman. 2006. *Arboles viejos del centro-norte de Mexico*, Centro Nacional de Investigacion Disciplinaria en Relacion Agua-Suelo-Planta-Atmosfera, Folleto Cientifico 20.
- Villanueva Diaz, J., J. Cerano Paredes, D.W. Stahle, M.D. **Therrell**, M.K. Cleaveland, and I. Sanchez Cohen. 2004. *Elementos Basicos de la Dendrochronologia y Sus Aplicaciones en Mexico*, Centro Nacional de Investigacion Disciplinaria en Relacion Agua-Suelo-Planta-Atmosfera.

Book Chapters

- Therrell, M.D.**, 2013. "Dendroecology". In *Oxford Bibliographies in Ecology*. Ed. David J. Gibson. New York: Oxford University Press. 2013. URL: <http://www.oxfordbibliographiesonline.com/obo/page/Ecology>.
- Villalba, R, et al., 2010. Dendroclimatology from Regional to Continental Scales: Understanding Regional Processes to Reconstruct Large-Scale Climatic Variations Across the Western Americas. In *Dendroclimatology Progress and Prospects Vol. 11*, ed. By M. Hughes, T. Swetnam, H. Diaz. Springer, 365 pp.
- Schoof J.T., and M.D., **Therrell**, 2009. "Climate Change" in *The Encyclopedia of Organic, Sustainable and Local Food*, ed. by L. Duram. Greenwood Press, 462 pp.
- Therrell, M.D.**, 2009. "Biodiversity" in *The Encyclopedia of Organic, Sustainable and Local Food*, ed. by L. Duram. Greenwood Press, 462 pp.
- Acuña Soto, R., D.W. Stahle, M.D. **Therrell**, and J. Villanueva Diaz, 2008. Drought Epidemic Disease, and Massive Population Loss; 1,000 Years of record in Mexico. In: *Global Climate Change and extreme weather events: understanding the contributions to infectious disease emergence*. Washington DC: The National Academies Press.
- Stahle, D.W., F. Fye, and M.D. **Therrell**, 2003. Interannual to Decadal Environmental Variability Estimated from Tree Rings. In: *The Quaternary in the United States, 2003*, ed. by B. Atwater, A. Gillespe, and S. Porter. INQUA and University of Washington Press.
- Stahle, D.W., J. Villanueva Diaz, M.K. Cleaveland, M.D. **Therrell**, G.J. Paull, B.T. Burns, W. Salinas, H. Suzan, and P.Z. Fule, 2000. Recent tree-ring research in Mexico. In: *Dendrocronologia en America Latina*, ed. by Fidel Roig, Universidad Nacional de Cuyo, Mendoza, Argentina.

Book Reviews

- "El Niño Catastrophism, and Culture Change in Ancient America" Sandweiss and Quilter, 2008. *Bulletin of the American Meteorological Society*, June, 2010.

Conference Proceedings

- Villanueva Diaz J., J. Cerano Paredes, D.W. Stahle, B.H. Luckman, and M.D. **Therrell**. 2006. *Historical Droughts in North-Central Mexico*. North American Drought Monitor Workshop, Mexico City, Mexico October 18-19, 2006. **invited**.
- Villanueva Diaz J., J. Cerano Paredes, D.W. Stahle, B.H. Luckman, M.D. **Therrell**, M.K. Cleaveland, and G. Gutierrez-Garcia. 2006. *Historic Hydroclimatic Variability in Northern Mexico*. USDA Forest Service Proceedings RMRS-P-42CD.

Refereed Abstracts

- Au, T.F., Maxwell, J.T., Novick, K.A. Robeson, S.M., Lockwood, B.R., Warner, S.M., Harley, G.L., Phillips, R.P., Therrell, M.D., Telewski, F.W. 2019. *Species-specific responses of radial growth to moisture variability indicate a greater impact of drought with forest mesophication in the eastern United States*. Presented at 2019 Ecological Society of America Meeting Aug. 11-16, 2019
- Bregy, J.C., T. Roberts, E.A. Elliott, M.D. Therrell, C.R. Lampman, J.T. Maxwell, ...2019. *Utilizing Anatomical Anomalies in Taxodium distichum to reconstruct Tropical Cyclone*

- Activity along the Northern Gulf of Mexico*. Abstract PP11C-1397 presented at 2019 Fall Meeting, AGU. San Francisco, CA. December 9-13, 2019.
- Lombardi, R. E.A. Elliot, J. Engstrom, M.D. Therrell. 2019. *Trans-Atlantic Paleoflood Frequency and Magnitude in the Common Era: When, where, and why do extreme floods occur?* Abstract H41N-1913. . presented at 2019 Fall Meeting, AGU. San Francisco, CA. December 9-13, 2019.
- Sadeghi, S., G.A. Tootle, E. Elliott, V. Lakshmi, M.D. Therrell, J. Kam, ...2019. *Atlantic Ocean Sea Surface Temperatures and Southeast United States Streamflow Variability*. Abstract GC11H-1079. presented at 2019 Fall Meeting, AGU. San Francisco, CA. December 9-13, 2019.
- Therrell, M., E. Elliott, and Harley, G., 2018. *Potential for Reconstruction of Summer Streamflow Using False Rings in Taxodium distichum*. Abstract B21G-15 presented at 2018 Fall Meeting, AGU. Washington, D.C. December 11, 2018.
- Tootle, G.A. M. Therrell, J. Kam, E.A. Elliott, B. Bearden, and S. Sadeghi. 2018. *Southeast U.S. Streamflow Drought Variability: Past, Present and Future*. abstract H51G-1393 presented at 2018 Fall Meeting, AGU. Washington, D.C. December 11, 2018.
- Therrell, M. M. Meko, M. Bialeki, J. Remo. 2017. *Assessment of Methods to Determine Tree Ring Response to Large Magnitude Mississippi River Floods*. Abstract PP31A-1268 presented at 2017 Fall Meeting, AGU. New Orleans, LA. December 13, 2017.
- Munoz, S.E., M.D. Therrell, J.W. Remo, L. Giosan, J.P. Donnelly. 2017. *Climatic and anthropogenic controls on Mississippi River floods: a multi-proxy paleoflood approach*. Abstract PP42A-04 presented at 2017 Fall Meeting, AGU. New Orleans, LA. December 14, 2017.
- Tootle, G.A. V. Lakshmi, M. Therrell, R. Huffaker, and E.A. Elliott. 2017. *Multi-decadal Decline of Southeast United States Streamflow*. Abstract H21F-1547 presented at 2017 Fall Meeting, AGU. New Orleans, LA. December 12, 2017.
- Washington-Allen, R.A., Landolt, K., Emanuel, R.E., Therrell, M.D., Nagle, N., Grissino-Mayer, H.D., Poulter, B. 2016. *Progress towards the use of publicly available data networks to conduct cross-scale historical reconstructions of carbon dynamics in US Drylands*. Abstract GC21C-1105 presented at 2016 Fall Meeting, AGU. San Francisco, CA. December 11-15, 2016.
- McLeran, K., J. Schoof, L. Lefticariu, M. Therrell. 2015. *$\delta^{18}O$ and $\delta^{13}C$ Analysis in Tree Rings of Pterocarpus angolensis Growing in Zimbabwe*. Abstract PP51A-2250 presented at 2015 Fall Meeting, AGU. San Francisco, CA. December 14-18, 2015.
- Therrell, M.D., M. Meko, M. Bialecki, G. Harley. 2015. *Tree ring anatomical variability as an indicator for large-magnitude spring flooding in the Lower Mississippi Basin*. Abstract PP51A-2262 presented at 2015 Fall Meeting, AGU. San Francisco, CA. December 14-18, 2015.
- Tootle, G., M. Therrell, T. Moat, M. Meko. 2015. *Seasonal Streamflow Reconstructions of the Choctawhatchee River (AL-USA)*. Abstract PP51A-2256 presented at 2015 Fall Meeting, AGU. San Francisco, CA. December 14-18, 2015.
- Greer, A. G. Tootle, A. Oubeidillah and M.D. Therrell. 2014. *Hydrologic Drought Reconstruction Potential in the Southeast US*. Abstract H23N-1068 presented at 2014 Fall Meeting, AGU. San Francisco, CA. December 16, 2014.

- K. McLeran, M.D. Therrell, L. Lefticariu. 2012. *Oxygen Isotope Analysis in Tree-Rings of Pterocarpus angolensis in Zimbabwe*. Abstract B21B-0351 presented at 2012 Fall Meeting, AGU. San Francisco, CA. December 3-7, 2012.
- Therrell, M.D., M. Bialecki, C. Peters. 2012. *A dendrochronological analysis of Mississippi River flood events*. Abstract PP24A-06 presented at 2012 Fall Meeting, AGU. San Francisco, CA. December 3-7, 2012.
- Miller, G.R., J.T. Schoof, and M.D. Therrell. 2011. *Developing Curriculum to Help Students Explore the Geosciences' Cultural Relevance*. Abstract ED21A-0570 presented at 2011 Fall Meeting, AGU. San Francisco, CA. December 5-9, 2011.
- Intolubbe Chmil, L. M.D. Therrell, R.J. Swap, and N. Ribeiro. 2011. *Transformative Teaching, Learning & Research: Cultivating Pedagogy Through the Mashamba Model*. 2011 AERA Annual Meeting. New Orleans, LA. April 2011.
- Villanueva Diaz, J., J. Cerano Paredes, D.W. Stahle, M.D. Therrell, and B.H. Luckman. 2007. *Tree Ring Chronologies in Mexico and Dendroclimatic and Ecological Applications*. Eos Trans. AGU, 88(23), Jt. Assem. Suppl., Abstract U42B-08.
- Acuña Soto, R., D.W. Stahle, J. Villanueva Diaz, and M.D. Therrell. 2007. *Association of Drought with Typhus Epidemics in Central Mexico*. Eos Trans. AGU, 88(23), Jt. Assem. Suppl., Abstract B41C-03.
- Stahle, D.W., M.K. Cleaveland, M.D. Therrell, H.D. Grissino Mayer, R.D. Griffin, and F.K. Fye. 2007. *A 2100-Year Reconstruction of July Rainfall Over Westcentral New Mexico*. Eos Trans. AGU, 88(23), Jt. Assem. Suppl., Abstract U23A-02.
- Washington Allen, R.A., M.D. Therrell, and R.E. Emanuel. 2007. *Theory and Practice in Determining the Long-Term Spatial Productivity of Drylands: A California Blue Oak Case Study*. Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract B42B-03.
- Washington Allen, R.A., T.E. Fatoyinbo, N.S. Ribeiro, H.H. Shugart, M.D. Therrell, K.T. Vaz, and L. von Schill. 2006. *Environmental Remote Sensing for Natural Resources Management: A Workshop in Collaboration with Faculdade de Agronomia e Engenharia Florestal, Universidade Eduardo Mondlane*. Eos Trans. AGU 87(52), Fall Meet. Suppl., Abstract ED31A-1369.
- Redmond, K.T., D.W. Stahle, M.D. Therrell, D.R. Cayan, and M.D. Dettinger, 2002. 400 Years of California Central Valley precipitation reconstructed from blue oaks. Preprint, *13th AMS Symposium on Global Change and Climate Variations*. Orlando FL. January 13-17, 2002. pp. 20-23.
- Stahle, D.W., M.D. Therrell, M.K. Cleaveland, F.K. Fye, E.R. Cook, H.D. Grissino Mayer, and R. Acuña Soto. 2002. *The 8th Century Megadrought across North America*. Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract PP71C-04.
- Drukenbrod, D., M.E. Mann, D.W. Stahle, M.K. Cleaveland, M.D. Therrell, and H.H. Shugart. 2001. *James Madison and a Shift in Precipitation Seasonality*. Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract GC21A-03.
- Stahle, D.W., and M.D. Therrell. 2001. *Tree-Ring Reconstruction of San Francisco Bay Salinity: 1604-1997*. Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract PP32B-0519.
- Therrell, M.D., D.W. Stahle, M.K. Cleaveland, J. Villanueva Diaz, and D.M. Meko. *The tree-ring record of early summer precipitation over Mexico*. in West, G.J., and Buggaloe, L.D., eds, *Proceedings of the 18th Annual Pacific Climate (PACLIM) Workshops: Technical Report 69 of the Interagency Ecological Program for the San Francisco Bay Estuary*. March 18-21, 2001. **Invited.**

- Stahle D.W., M.K. Cleaveland, M.D. Therrell, and J. Villanueva Diaz. 1999. Tree-Ring reconstruction of winter and summer precipitation Durango, Mexico, for the past 600 years. In *10th Symposium on Global Change Studies*, January 10–15, Dallas, TX. Karl TR (Program Chairman). American Meteorological Society: Boston, MA; 317–318.
- Stahle, D.W., M.K. Cleaveland, M.D. Therrell, R.D. D'Arrigo, P.J. Krusic and E.R. Cook. 1997. Experimental reconstruction of the Southern Oscillation. *Eos Transactions of the American Geophysical Union*, 78(46), Fall Meet. Suppl.

PRESENTATIONS

At Professional Meetings

- Therrell, M.D., *Flood Signals in Tree Rings*. 2019. Presented at *U.S. Nuclear Regulatory Commission Workshop. Development of a Framework for Technical Review of Paleoflood Information*, May 29–30, at the NRC in Rockville, Maryland.
- Elliott, E., M. Therrell, G. Tootle and J. Kam, 2018. Panel Discussion: *Increasing community resilience in coastal watersheds of Alabama by risk assessment of past, present and future trends in hydrologic and hydroclimatic extremes*. Presentation at the Alabama State Water Resources Conference, September 6, 2018, Orange Beach, Alabama
- Sadeghi, S., G. Tootle, J. Kam, G. Harley, M. Therrell, E. Elliott, and B. Bearden, 2018. *Comparing Paleo, Observed and Future Streamflow in Coastal SE US*. Presentation at the Water Policy Summit, National Water Center, Tuscaloosa, Alabama (March 28, 2018).
- Therrell, M.D. *A Paleoclimate Perspective on Water Policy in the Southeast*. 2018 Bays and Bayous Symposium. Mobile, AL. November 28-29, 2018.
- Therrell, M., E. Elliott, and Harley, G., 2018. *Climate signals in False Rings of Bald Cypress (Taxodium distichum)*. 73rd Annual meeting of the Southeastern Division Association of American Geographers. Johnsonville, TN. November 18-20, 2018.
- Davis, L., R. Lombardi, G. Stinchcomb, M. Therrell, M. Gage, S. Sherwood, C. Stewart. 2017. *A regional paleoflood analysis for the eastern U.S., implications for extreme flood frequency*. Poster Presentation, Association of American Geographers Annual Meeting, Boston, MA, April 5-9, 2017.
- Rivers, J., M. Therrell, E. Elliot. 2017. *Investigation of paleo extreme river flooding occurrence through dendrochronological reconstruction – Bucks Pocket State Park*. 72nd Annual meeting of the Southeastern Division Association of American Geographers. Starkville, MS. November 19-20, 2017.
- Therrell, M., J. Remo, E. Elliot, J. Rivers, M. Bialecki. 2017. *Tree-Ring Records of Flooding in the Mississippi Basin*. 72nd Annual meeting of the Southeastern Division Association of American Geographers. Starkville, MS. November 19-20, 2017.
- Therrell, M. 2017. *A Paleohydroclimate Perspective on Alabama Water Policy* Alabama Water Resources Conference. Orange Beach, AL September 6-8, 2017.
- Davis, L. G. Stinchcomb, M. Therrell, M.Gage, S. Driese, S. Forman, S. Sherwood, N. Dimova, R. Lombardi 2016. *Paleoflood reconstruction in the Tennessee River (USA): preliminary findings*. 5TH International Paleoflood Conference. Rapid City, South Dakota, USA. September 12-15, 2016.
- Therrell, M.D., J. Remo, M. Meko, M. Bialecki, G. Harley. 2016. *Tree-ring records of large-scale flooding on the Lower Mississippi River*. Geological Society of America. Annual Meeting. Denver, CO, September 25-28, 2016.

- Therrell, M.D., J. Remo, M. Meko, M. Bialecki, G. Harley. 2016. *Anatomical variability in tree-rings related to large-scale flooding*. PAGES-Cross-Community Workshop on past flood variability. Grenoble, France. June 27-30, 2016. **Invited.**
- Therrell, M.D. 2015. *Paleo-hydroclimate of the Southeastern United States*. Alabama Water Resources Conference. September 9-11, 2015. Orange Beach, Alabama.
- Therrell, M.D. 2015. *Potencial para realizar estudios dendrocronologicos en Cuba*. X Convencion Internacional sobre medio Ambiente y Desarrollo. July 6-10, Havana, Cuba. **Invited.**
- Trouet, V. Z. Hassan Khamisi and M. Therrell. 2015. *Climatic drivers of tree growth in the miombo woodland of southern Africa*. Wood science underpinning tropical forest ecology and management. Tervuren, Belgium, May 26-29, 2015.
- Meko, M., M Therrell and A. Greer. 2015. *Tree-ring anatomical variability and flooding near the White River-Mississippi River confluence*. 111th Annual meeting Association of American Geographers. Chicago, IL. April 23, 2015.
- Therrell, M.D., I. Remane, and K. McLeran. 2013. *Tree Ring Chronologies from Mozambique*. Ameridendro Conference Tucson, AZ, May 13-17, 2013.
- Peters, C. and M.D. Therrell. 2012. *Analysis of Paleoflood impacts along the Mississippi River using dendrochronological techniques*. National Conference on Undergraduate Research. Ogden UT. March 29-31, 2012.
- Therrell, M.D., I. Remane, and K. McLeran. 2012. *Recent Tree-Ring Research in Southern Africa*. 108th Annual meeting Association of American Geographers. New York, NY. February 28, 2012.
- Harris, J., C.M. Ruffner, M. Therrell, and C. Nielsen. 2012. *A Dendrochronological Determination of Historical Fire Occurrence and Recruitment in Southern Illinois Oak-Hickory Forests*. 108th Annual meeting Association of American Geographers. New York, NY. February 28, 2012.
- Harris, J., C.M. Ruffner, M. Therrell, and C. Nielsen. 2011. *A Dendrochronological Determination of Historical Fire Occurrence and Recruitment in Southern Illinois Oak-Hickory Forests*. 107th Annual meeting Association of American Geographers. Seattle, WA. April 15, 2011.
- Therrell, M.D., and R.J. Swap. 2011. *Dendrochronology in Mozambique*. 107th Annual meeting Association of American Geographers. Seattle, WA. April 15, 2011.
- Considine, C.D. J.W. Groninger, C.M. Ruffner, S.G. Baer, and M.D. Therrell. 2008. *Integrating fire history and stand structure: Implications for black oak sand savanna management and restoration*. 93rd ESA Annual Meeting. Milwaukee, WI. August 3-8, 2008.
- Therrell, M.D., D.W. Stahle, J. Villanueva Diaz, E. Cornejo Oviado, and M.K. Cleaveland. 2007. *Records of Drought and Famine in Mexico*. Multidisciplinary investigations of climate change in Mexico. Merida, Mexico. January 8-10, 2007. **Invited.**
- Therrell, M.D., 2006. *Tree-Ring Records of Extreme Climate in Mexican History*. Multidisciplinary investigations of climate change in Mexico. Nottingham, England, April 3rd-7th, 2006. **Invited.**
- Therrell, M.D., D.W. Stahle. L.P. Ries, and H.H Shugart. 2006. *Tree-Ring Reconstructed Rainfall Over Zimbabwe*. 102nd Annual meeting Association of American Geographers. Chicago, IL. March 31, 2006.
- Therrell, M.D., D.W. Stahle, R. Acuña Soto, M.K. Cleaveland, J. Villanueva Diaz, and E. Cornejo Oviedo. 2005. *The curse of climate: Records of drought and famine in Central*

- Mexico. Workshop on Climate and Cultural History in the Americas. Quintana Roo, Mexico. March 31-April 2, 2005. **Invited.**
- Villanueva Diaz J., B.H. Luckman, D.W. Stahle, M.D. Therrell, M.K. Cleaveland, J. Cerano Paredes, J. Estrada Avalos, and R. Jasso Ibarra. 2005. *Historical hydroclimate variability on the upper forested Nazas watershed Durango, Mexico* (Poster). Planning workshop to develop hydroclimatic reconstructions for decision support in the Colorado basin. Tucson, AZ. May 4-5, 2005.
- Villanueva Diaz, J., J. Cerano Paredes, D.W. Stahle, B.H. Luckman, M.D. Therrell, and M.K. Cleaveland, 2005. *Tree-ring chronologies and their hydroclimatic response in northern Mexico*. 5th Annual Science Meeting IAI CRN03. Akumal, Yucatan, Mexico. March 28- April 1st 2005.
- Villanueva Diaz J., J. Cerano Paredes, D.W. Stahle, M.D. Therrell, and M.K. Cleaveland. 2005. *New climate sensitive tree-ring chronologies for northern Mexico and the potential for longterm fire frequency studies*. Workshop on fire history and climate synthesis in western North America. Northern Arizona University, Flagstaff, AZ. April 30-May 3, 2005.
- Villanueva Diaz J., D.W. Stahle, M.D. Therrell, and J. Cerano Paredes. 2005. *Climate variability in central Mexico for the last 800 years*. Workshop on climate and cultural history in the Americas. Quintana Roo, Mexico, March 31-April 2, 2005.
- Therrell, M.D., D.W. Stahle, R. Acuña Soto, M.K. Cleaveland, J. Villanueva Diaz, and E.H. Cornejo Oviedo. 2004. *Tree Rings, Drought, and Famine, in Central Mexico*. 100th Annual meeting Association of American Geographers. Philadelphia, PA. March 5-8, 2004.
- Villanueva Diaz J., B.H. Luckman, D.W. Stahle, M.D. Therrell, M.K. Cleaveland, J. Cerano, G. Gutierrez, J. Estrada, and R. Jasso. 2004. *Variabilidad hidroclimática histórica en la cuenca alta del Río Nazas*. Memorias de la XVI Semana Internacional de Agronomía FAZ-UJED. 666 – 673 Pp.
- Cleaveland, M.K., D.W. Stahle, and M.D. Therrell. 2003. *A network of long tree-ring chronologies in Mexico and uses*. 99th Annual meeting Association of American Geographers. New Orleans, LA. March 5-8, 2003.
- Stahle, D.W., M.D. Therrell, M.K. Cleaveland, J. Villanueva Diaz, R. Acuña Soto, and E. Cornejo Oviedo. 2003. *Dendroclimatology in Mexico*. 4th Annual Science Meeting IAI CRN03. Mendoza, Argentina, October 10-16, 2003. p47-8.
- Therrell M.D., D.W. Stahle, M.K. Cleaveland J. Villanueva Diaz, R. Acuña Soto and E. Cornejo Oviedo. 2003. *Tree rings, climate and maize yields in Mexican History*. 4th Annual Science Meeting IAI CRN03. Mendoza, Argentina, October 10-16, 2003. p38-9. **Invited.**
- Villanueva Diaz, J., J. Cerano Paredes, D.W. Stahle, M.D. Therrell, and M.K. Cleaveland 2003. *Cronologías de anillos de árboles del norte de Mexico y su potencial hidroclimatico*. Pp. 71 – 76. XII Congreso Nacional de Irrigación (ANEI). Zacatecas, Mexico. August 13-15, 2003.
- Villanueva Diaz, J., J. Cerano Paredes, D.W. Stahle, M.D. Therrell, and M.K. Cleaveland. 2003. *A tree-ring precipitation reconstruction for northern Mexico and new tree-ring chronologies for the region*. 4th Annual Science Meeting IAI CRN03. Mendoza, Argentina. October 10-16, 2003.
- Villanueva Diaz, J., D.W. Stahle, M.D. Therrell, M.K. Cleaveland, and E.H. Cornejo Oviedo, E.H. 2003. *A tree-ring reconstruction of cool seasonal precipitation for northeast Mexico*. Abstracts of the workshop on Managing Water Resources Under Conditions of High Climatic Variability in the US-Mexico Border Region. La Paz, Baja California Sur, Mexico. January 14-16, 2003.

- Stahle, D.W., M.D. Therrell, M.K. Cleaveland, and J. Villanueva Diaz. 2002. *IAI- related tree-ring research in Mexico*. Program with Abstracts, Third Annual Science Meeting IAI CRN03. Oaxaca, Mexico. April 19-23, 2002.
- Villanueva Diaz, J., D.W. Stahle, M.D. Therrell, and M.K. Cleaveland. 2001. *Especies arbóreas y su potencial para estudios históricos de variabilidad climática en México*. Quinta Reunión Científica y Tecnológica del INIFAP. San Luis Potosí, Mexico. August 27, 2001. **invited**.
- Cleaveland, M.K., D.W. Stahle, and M.D. Therrell. 2000. *Winter and summer precipitation in Durango reconstructed from earlywood and latewood chronologies*. International Conference on Dendrochronology for the Third Millennium. Mendoza, Argentina. April 2-7, 2000.
- Stahle, D.W., R.D. D'Arrigo, P.J. Krusic, M.K. Cleaveland, E.R. Cook, M.D. Therrell, and J. Villanueva Diaz. 2000. *Experimental tree-ring reconstruction of past ENSO variability*. International Conference on Dendrochronology for the Third Millennium. Mendoza, Argentina. April 2-7, 2000.
- Therrell, M.D. and D.W. Stahle. 2000. *Dendrochronology of ancient blue oak woodlands in California*. International Conference on Dendrochronology for the Third Millennium. Mendoza, Argentina. April 2-7, 2000.
- Stahle, D.W., M.K. Cleaveland, and M.D. Therrell. 2000. *Tree-ring records of ENSO and monsoon variability over subtropical North America*. 16th Biennial Meeting of the American Quaternary Association. Fayetteville, AR. May 22-24, 2000.
- Therrell, M.D., and D.W. Stahle. 2000. *Paleoclimatic significance of ancient blue oak woodlands in California*. 16th Biennial Meeting of the American Quaternary Association. Fayetteville, AR. May 22-24, 2000.
- Villanueva Diaz, J., D.W. Stahle, M.K. Cleaveland, and M.D. Therrell. 2000. *Tree-ring chronologies and ENSO in northern Mexico*. 15th Biennial Meeting of the American Quaternary Association. Puerto Vallarta, Mexico. September 5-7, 2000.
- Therrell, M.D., and D.W. Stahle. 1999. NOAA/NASA Workshop: Assessing the full range of central North America droughts and associated landcover change. Boulder, CO. June 2-4, 1999. **Invited**.
- Therrell, M.D., and D.W. Stahle. 1995. *A Predictive Model to Locate Ancient Forests, Savannas, and Glades in the Cross Timbers*. Midwest Oak Savanna and Woodland Ecosystems Conferences, Springfield, Missouri. September 26-29, 1995.

Other venues

- Auburn University, Department of Geography Colloquium, "*L'annee des Grandes Eaux*" and *other Climate Disasters*. September 12, 2018.
- Guest on local FOX affiliate morning program discussing climate change. May 29th, 2014.
- Guest on WVUA local radio program discussing climate change. February 12th, 2014.
- Guest on local FOX affiliate morning program discussing climate change. February 6th, 2014.
- Panel discussant on "From Antarctica to Climate Change Policies: Roles of Scientists and Media in Policymaking and Legislation" panel, part of SIU "Antarctica: Imagined Geographies Initiative", April 25, 2012.
- Southern Illinois Science Center "Science Café", *The Curse of Climate: Tree Rings, Drought, and Disaster*, March 22, 2012.
- Guest on WSIU public radio program "Morning Conversation" discussing tree rings and climate change.

Southern Illinois University, Department of Forestry colloquium, *Sustainable Forestry in Mozambique*, November 3, 2009.

Southern Illinois University, Center for Ecology, *Tropical Forest Management in Mozambique*, October 14, 2009.

The Illinois State Water Survey Center for Atmospheric Science, *Tree Rings, Climate, and History in Mexico*, September 22, 2009.

Southern Illinois University, Center for Ecology, *Tree-Ring Research in Southern Africa*, October 8, 2008.

Southern Illinois University, Center for Delta Studies, Climate Change Forum, *Tree-Ring Records of Climate*, September 26, 2008.

Keynote: John A. Logan College, International High School Conference, *Climate Change and Sustainability*, April 29, 2008.

University of Virginia, Department of Environmental Science, *Undergraduate Student Research in Southern Africa*, January 2, 2008.

Southern Illinois University, Department of Forestry, *Recent Tree-Ring Research in Southern Africa*, November 8, 2007.

University of Virginia, Department of Biology, *Recent Tree-Ring Research in Southern Africa*, April 19, 2006.

University of Virginia, Department of Environmental Science, Undergraduate Seminar: *Ancient Forests and Ancient Climates*, April 11, 2006.

University of Arkansas, Department of Geography, *Recent Tree-Ring Research in Southern Africa*, March 3, 2006.

University of Missouri, Department of Geography, *Tree-Rings, Climate, and History in Mexico*, January 24, 2006.

University of Virginia, Center for Regional Environmental Science, *Potential Tree-Ring Research in Africa*, September 14, 2004.

University of Wisconsin, Department of Geography, *Tree-Rings, Climate, and History in Mexico*, December 12, 2003.

California State University Long Beach Department of Geography, *Tree Rings; Climate, and History in Mexico*, February 19, 2003.

Other Publications

Contributed 86 tree-ring chronology and climate reconstruction datasets to the International Tree-Ring Databank an archive of the World Data Center.

D.W. Stahle, M.D. Therrell, J. Villanueva Diaz, and E. Cornejo Olviedo. 2003. "The Ancient Douglas-fir (*Pseudotsuga menziesii*) Forest near Cuauhtemoc la Fragua, Puebla, Mexico" A proposal for land conservation. Published by University of Arkansas Tree-Ring Laboratory.

Climate Reconstruction Group, 13th North American Dendroecology Fieldweek, Lubrecht Experimental Forest, Missoula, Montana. 2003. *A Hydroclimatic Analysis of Ancient Douglas-fir, Clearwater River, Montana* (unpublished manuscript).

SIU Campus Sustainability Project website (sustainability.siu.edu)

PROFESSIONAL SERVICE

Outside T&P evaluator for University of Memphis Department of Earth Sciences 2017

Outside T&P evaluator for Auburn University Department Crop, Soil and Environmental Sciences 2019

Membership in Professional Associations

Association of American Geographers
American Geophysical Union
American Meteorological Society
American Quaternary Association
Sigma Xi
Tree-Ring Society

Evaluation of Manuscripts for Journals and Book Publishers and of Grant Proposals for Agencies

2021

Reviewed article for *Climate of the Past*
Reviewed article for *Water*
Reviewed article for *Water Resources Research*
Research Reviewer Johannes Gutenberg University, Mainz

2020

Reviewed article for *Agricultural and Forest Meteorology*
Reviewed article for *International Journal of Biometeorology*
Reviewed article for *Dendrochronologia*
Reviewed article for *Ecohydrology and Hydrobiology*
Reviewed article for *Forests(2)*
Reviewed article for *Global and Planetary Change*
Reviewed article for *The Holocene*
Reviewed article for *Journal of Hydrology*
Reviewed article for *Nature Communications*

2019

Reviewed article for *Agricultural and Forest Meteorology*
Reviewed article for *Climatic Change*
Reviewed article for *Dendrochronologia*
Reviewed article for *Ecohydrology*
Reviewed article for *Global and Planetary Change*
Reviewed article for *iForest*

2018

Reviewed article for *AoB Plants*
Reviewed article *Arctic, Antarctic, and Alpine Research*
Reviewed article for *Water Resources Research*
Reviewed article for *Trees: Structure and Function*
Reviewed grant proposal for National Science Foundation; Paleoclimate Program

2017

Reviewed article for *Advances in Water Resources*
Reviewed article for *Canadian Journal of Forest Resources*
Reviewed article for *Climatic Change*
Reviewed article for *Geophysical Research Letters*
Reviewed article for *Journal of Latin American Geographers*
Reviewed article for *Physical Geography*
Reviewed article for *Trees: Structure and Function*
Reviewed grant proposal for Natural Sciences and Engineering Research Council of Canada
Reviewed grant proposal for National Science Foundation; GSS
Reviewed grant proposal for National Science Foundation; Paleoclimate Program

2016

Reviewed article for *Advances in Water Resources*
Reviewed article for *Dendrochronologia* (2)
Reviewed article for *Forest Ecology and Management*
Reviewed article for *Geomorphology*
Reviewed article for *Journal of Hydrology*
Reviewed article for *Wetlands*
Reviewed grant proposal for National Science Foundation; EAR-Global Change
Reviewed grant proposal for National Science Foundation; EAR-Post Doctoral Fellowships
Reviewed grant proposal for National Science Foundation; GSS
Research Reviewer for South African National Research Foundation

2015

Reviewed article for *Dendrochronologia*
Reviewed article for *Wetlands*
Reviewed article for *Trees: Structure and Function*
Reviewed article for *Tree-Ring Research* (2)

2014

Reviewed article for *Agricultural and Forest Meteorology*
Reviewed article for *Australian Journal of Grape and Wine Research*
Reviewed article for *Climate Dynamics*
Reviewed article for *Dendrochronologia*
Reviewed article for *Journal of Atmospheric Science*
Reviewed article for *Journal of Geophysical Research – Biogeosciences*
Reviewed grant proposal for SNSF, Swiss National Science Foundation
Reviewed grant proposal for National Science Foundation; Paleoclimate Program

2013

Reviewed article for *Dendrochronologia*
Reviewed article for *Holocene* (2)
Reviewed article for *Journal of Geophysical Research – Atmospheres*
Reviewed article *Nature Communications*
Reviewed article *Theoretical and Applied Climatology*
Reviewed article for *Tree-Ring Research* (2)

Reviewed article *Water Resources Research*

2012

Reviewed article for *African Journal of Agricultural Research*

Reviewed article for *Journal of Geophysical Research - Atmospheres*

Reviewed article for *Tree-Ring Research* (2)

Reviewed article for *Journal of Archaeological Science*

Reviewed article for *Ecology and Evolution*

Reviewed article for *Forest Ecology and Management*

Reviewed article for *Geophysical Research Letters*

Reviewed article for Proceedings of the National Conferences on Undergraduate Research (2)

Reviewed grant proposal for DFG, German Research Foundation

Reviewed grant proposal for NSF; Geography and Spatial Sciences Program

Member NSF Review Panel, Decision, Risk and Management Sciences Program

2011

Reviewed article for *Agriculture, Ecosystems and Environment*

Reviewed article for *Canadian Journal of Forest Resources*

Reviewed article for *International Journal of Climate*

Reviewed article for *Journal of Quaternary Science*

Reviewed article for *Nature Climate Change* (2)

Reviewed article for *Progress in Physical Geography*

Reviewed article for *Tree-Ring Research*

Reviewed grant proposal for NSF; Office of International Science and Engineering

Reviewed grant proposal for NSF; Geography and Spatial Sciences Program

2010

Reviewed article for *Journal of Climate*

Reviewed article for *Journal of Hydrometeorology*

Reviewed article for *Water Resources Research*

2009

Reviewed article for *Canadian Journal of Forest Resources*

Reviewed article for *Climatic Change*

Reviewed article for *Global and Planetary Change*

Reviewed article for *International Journal of Climate*

2008

Reviewed article for *Geophysical Research Letters*

Reviewed article for *International Journal of Climate*

Review of book chapter in "Tidal salt marshes of the San Francisco Bay Estuary: ecology, restoration, preservation. Published by San Francisco Bay National Estuary Research Reserve

Reviewed grant proposal for NSF; Geography and Regional Science Program

2007

Reviewed article for *Global and Planetary Change*

Reviewed article for *Journal of Arid Environments*
Reviewed article for *Journal of Vegetation Science*
Reviewed article for *Tree-Ring Research*

2006

Reviewed article for *Climatic Change*
Reviewed article for *Journal of Vegetation Science*
Reviewed grant proposal for NSF; Geography and Regional Science Program

2005

Reviewed article for *Geophysical Research Letters*
Reviewed article for *Northwest Science*
Reviewed grant proposal for National Science Foundation; Paleoclimate Program.
Reviewed grant proposal for NSF; International Research Fellowship Program

OTHER PROFESSIONAL ACTIVITIES

Editorial Board Member, ***FORESTS***
Editorial Board Member, ***WATER***

GSA 2016 Conference Session. Organizers: Matthew Therrell, Lisa Davis and Samuel Munoz
Title: (T59). *Paleofloods and Related Fluvial Processes during the Late Quaternary: Reconstructions and Causes* at the Geological Society of America (GSA) Annual Meeting 2016. Denver, Colorado, USA September 25-28

AAG 2006 Conference Session. Organizers: Matthew Therrell and Valerie Trouet
Title: Dendrochronology VI: Tropical Dendrochronology I; Dendrochronology VII: Tropical Dendrochronology II at the 102nd annual meeting in Chicago, IL

AAG 2012 Conference Session. Organizers: Matthew Therrell and Valerie Trouet (U. Arizona)
Title: Dendrochronology VI: Tropical Dendrochronology at the 108th annual meeting in New York, NY

Field trip co/organizer:

The American Quaternary Association, biennial meeting, 2000

The Natural Areas Association, annual meeting, 1995

Co-founder of The Ancient Cross Timbers Consortium

Co-founder of The Eastern Native Tree Society

Contributor to the IGBP PAGES/World Data Center for Paleoclimatology (40+ tree-ring, climate reconstructions)

Member "Mexico Climate Change Network"

Participant, Inter-American Institute, Tree Lines Project, 1998-2004

Consultant for Illinois Department of Natural Resources, 2012

Consultant for Shawnee Resource Conservation and Development Area, 2012

Consultant for UA Office of Archaeological Research 2014-2016

TEACHING EXPERIENCE

Courses Taught

University of Alabama

Atmospheric Processes and Patterns (GY 101) each semester 2013-2019 (150-350 students/semester)
Global Environmental Change (GY 470/570) 2014, 2016, 2017, 2019
Hydroclimatology (GY 412/512) 2015, 2018
Physical Geography of the Southeastern U.S. (GY 404/504) Spring 2015, 2016, 2017, 2018, 2019, 2021
Directed Research in Physical Geography (GY 405) Spring 2015 (2 students), Spring 2016, Spring 2018, Fall 2018, Spring 2019.

Southern Illinois University

Environmental Management (GENV 320), Spring 2008
Field Methods in Geography (GENV 433), Spring 2009-2013
Global Climate Change (GENV 439/539) Fall 2007-present
Sustainability in Higher Education (Honors 351) Fall 2010
Weather, Climate and Society (GENV 104) Spring and Fall 2007-2013 (~250 students/semester)
Independent Studies (GENV 591-701) Spring 2009 (1 student)
Independent Studies (GENV 591-701) Spring 2010 (1 student)
Independent Studies (GENV 591-701) Summer 2011 (1 student)
Readings in Geography (GENV 490 Sec. 701) Summer 2008 (1 student)
Readings in Geography (GENV 490 Sec. 701) Summer 2009 (2 students)
Readings in Geography (GENV 490 Sec. 701) Fall 2009 (2 students)
Readings in Geography (GENV 490 Sec. 701) Spring 2011 (2 students)

The University of Iowa

Climatology Spring 2004
Consequences of Global Environmental Change Fall 2003
Contemporary Environmental Issues Fall 2004
Earth Systems Science Fall 2003, Spring 2004, Fall 2004
Field Methods in Physical Geography Spring 2004
Remote Sensing and GIS in Environmental Conservation, Spring 2004
Water Resources Management, Fall 2003

The University of Arkansas

Physical Geography Fall 1997

Teaching and Training Awards

Faculty Research Mentor for Illinois Department of Natural Resources Summer Intern (Kimberly Elsenbroek). 2009
Faculty Research Mentor for SIU "Research Rookie" Program (Kimberly Elsenbroek). 2008-2009
Faculty Mentor for SIU Undergraduate Assistantships Program. Title of position: *Research in Environmental Management Systems* (Jonathon Dyer). 2008-2009
Faculty Mentor for SIU Undergraduate Assistantships Program. Title of position: *Research in Environmental Management Systems* (Jon Dyer). 2009-2010
Faculty Mentor for SIU Undergraduate Assistantships Program. Title of position: *Research in Dendrochronology* (Christopher Peters). 2010-2011

Successful Proposal for Honors Seminar “Sustainability in Higher Education: Making it Happen” SIU
 ‘University Honors Program’, Fall 2010, Spring 2013

Completed Master’s Theses and Doctoral Dissertations

2019

Jordan Cissel	PhD	Geography, U. of Alabama	Member
Sahar Sadeghi	PhD	Engineering, U. of Alabama	Member

2017

Rachel Lombardi	MS	Geography, U. of Alabama	Member
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2016

Christine Basset	MS	Geological Sciences, U. Alabama	Member
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2015

Matthew Meko	MS	Geography, U. of Alabama	Chair
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2014

Astika Bhugaloo	MS	Geography, U. of Kwazulu Natal	Member
Makala Bonney	MS	Geography, SIU,	Member
Zakia Hassan Khamisi	MS	Watershed Management, U. of Arizona	Member
Brooke Lopeman	MS	Geography, SIU	Chair
Plaxedes Makweche	PhD	Environmental Resources and Policy, SIU,	Member

2013

Zachary Heern	MS	Geography, SIU,	Member
Johannes Mack	MS	Geography, SIU,	Member
Kerry McLeran	MS	Geography, SIU,	Chair
Melva B. Trevino-Pena	MS	Geography, SIU,	Member
Ivan Remane	MS	Geography, SIU,	Chair
Anthony Romano	MS	Geography, SIU,	Chair
Adam Shaffner	MS	Geography, SIU,	Member

2012

Timothy Bannon	MPA	Political Science, SIU	Member
William Barrett	MS	Geography, SIU,	Member
Samuel Fisher	MS	Geography, SIU,	Member
Michael Holst	MS	Geography, SIU,	Member
Abu Khan	PhD	Environmental Resources and Policy, SIU,	Member
Laura Williams	MS	Geography, SIU,	Member

2011

Andrew Fleming	MS	Geography, SIU,	Member
Jeffry Harris,	MS	Forestry, SIU	Member
Sharon Hayden	PhD	Curriculum and Instruction, SIU	Member

Brendan Lutz	PhD	Environmental Resources and Policy, SIU,	Member
John Magill,	MS	Plant, Soil and Ag Systems, SIU	Member
Audrey Wagner	MS	Geography, SIU,	Member

2009

Margaret Bialecki	MS	Geography, SIU,	Chair
Alison Fisher	PhD	Speech Communication, SIU,	Member

2008

Cody Considine	MS	Forestry, SIU,	Member
Jeremy Suprenant	MS	Geography, SIU,	Member

Ongoing Master's Theses and Doctoral Dissertations

Joni Corbin	PhD	Engineering, U. of Alabama	Member
Carly Jones	MS	Geography, U. of Alabama	Chair
Rachel Lombardi	PhD	Geography, U. of Alabama	Member
Laura Smith	PhD	Geography, U. of Tennessee	Member

Other Teaching and Training Activities

Current Supervisor

Emily Elliot Postdoctoral Researcher, Department of Geography
Clay Tucker Postdoctoral Researcher, Department of Geography

Supervised Senior Thesis

- C. Christianson, BA Geography, The University of Iowa, 2004
- C. Friewald, Honors, Southern Illinois University, 2012
- B. Mayberry, BA Geography, The University of Iowa, 2004
- N. Perry, BA Geography, The University of Iowa, 2004

Faculty advisor for program for Egyptian High School Summer Enrichment Program Funded by:
SIU College of Education and Human Services July 2011, 2012, 2013

Developed and advised SIU 'Going Green' 'Living Learning Community' Fall 2009-2012

Developed and led USAID-funded, multi-day workshop on tropical dendrochronology at Eduardo Mondlane University, Machipanda Forestry Research Center July 3-5, 2007

Supervised student field research in South Africa and Mozambique, as part of the National Science Foundation, International Experience for Students Program. The primary focus of the research was the investigation of below ground biomass and carbon stocks. 2007-09

Instructor, University of Virginia study abroad course "People, Environments and Culture" May 23-June 18th 2007 South Africa and Mozambique

Instructor, USAID-funded Environmental Remote Sensing Workshop, Eduardo Mondlane University, Maputo, Mozambique, June 12-23, 2006

Group co/leader North American Dendroecology Fieldweek
Lubrecht Experimental Forest, Montana, 2003

Rapide Danseur, Canada, 2002
Saltillo, Mexico, 2001

Advised on field research design and laboratory analysis

H. Dunderdale, Noyce Summer Research Experience for Teachers, 2013
T. Fatoyinbo, PhD Environmental Sciences, University of Virginia, 2005-2007
A. Hildt, PhD Environmental Sciences, University of Virginia, 2005-2007
L. Ries, PhD Environmental Sciences, University of Virginia, 2005-2007
K. Burke PhD Biology, University of Virginia, 2005-2007
J. Bell, BS Geology, James Madison University, 2006
J. Edmundson, BS Geology University of Arkansas, 2005-2006
M. Mangione, MA Geography, University of Arkansas, 2000-2001
D. Griffin, MA Geosciences, University of Arkansas, 2003-2006
A. Dunn, BS Geology, University of Arkansas, 2000-2002
A. Bayard, MA Geography, University of Arkansas, 1999-2001

UNIVERSITY SERVICE

Department

UA Awards Committee, 2013-2016
UA Search Committee Chair, 2013, 2016, 2017
UA Search Committee Member, 2014-2019
UA PhD Proposal Committee Chair 2015-2016
UA T&P Committee Chair 2017-Current

SIU Graduate Program Director, 2008-2013
SIU Departmental Library Liaison Fall 2008-2013
SIU Merit Pay Committee 2007-2008

College and University Committees and Councils

UA Honors College Dean Search Committee, 2019
UA Vice President for Research and Economic Development, Search Committee Member 2017-2018
UA Research Advisory Committee (RAC), NSM Representative 2015-2018, Chair Elect 2016-2017, Chair 2017-2018. Past Chair 2018-2019.
UA CARSCA Committee, 2014-2016, Chair NSM subcommittee 2015-2017
UA CoAS Undergraduate Curriculum Committee, 2014-Current
UA CoAS Diversity Committee, 2013-2015, Chair 2014-2016

SIU REACH Awards Committee Member, 2012-2013
SIU Chancellor's Sustainability Council, 2009-2013
 Green Fund Committee, Member, 2010-2013
 Treasurer, Finance Committee, Chair, 2011-2013
SIU Tree and Landscape Task Force, 2009-2013
SIU Research Rookies Advisory Board, 2009-2010
SIU College of Liberal Arts (CoLA) Council, Fall 2008-Spring 2013
 Academic Policy Committee, 2008-2009

Campus Sustainability Committee, 2008-2010

Other University Service

Evaluator for UA *3 Minute Thesis* competition

Session Organizer for 2009, SIU Center for Ecology Speakers Series

Served as SIU Faculty Associate for 9th floor of Neely Hall 2009-2012

Served as Faculty Advisor for SIU 'Eco Dawgs' student RSO, Fall 2009-2012

Served as Faculty Advisor for SIU 'LOGIC' student RSO, Fall 2009-2011

Submission of Proposal for Honors Seminar "Environmental Change and Sustainability: Rebuilding the Ship as We Sail" SIU Honors Program, Fall 2008, 2009, 2012

Departmental Reader at SIU CoLA Undergraduate Commencement Ceremony, May 2008

Departmental Reader at SIU Honors Awards Ceremony, May 2011, 2013

Evaluator for SIU Undergraduate Research Forum 2009

Evaluator for SIU Undergraduate Research Forum 2011

Evaluator for St. Louis Area Undergraduate Research Symposium, 2011.