

## RANDY ALAN PEPPLER

Associate Director, NOAA Cooperative Institute for Mesoscale Meteorological Studies (CIMMS)  
Manager, U.S. DOE Atmospheric Radiation Measurement (ARM) Program Data Quality Office  
Instructor, University of Oklahoma Department of Geography and Environmental Sustainability

Updated: December 2020

### ADDRESS

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CIMMS  
2100 National Weather Center  
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### EDUCATION

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#### **Doctor of Philosophy** in *Geography* 2011

Department of Geography and Environmental Sustainability, University of Oklahoma

Dissertation: *Knowing Which Way the Wind Blows: Weather Observation, Belief and Practice in Native Oklahoma* (excerpts published in *Weather, Climate and Society*, **2**, 200-209; *Weatherwise*, **65**(5), 33-39; *The Chronicles of Oklahoma*, **94-4**, 414-431; *Weather, Climate, and Society*, **9**, 317-329; *American Indian Culture and Research Journal*, **41**, 73-86)

#### **Master of Science** in *Industrial Engineering* 1991

Department of Mechanical and Industrial Engineering, University of Illinois at Urbana-Champaign  
Non-Thesis Option

#### **Master of Science** in *Atmospheric Science* 1982

Department of Geoscience, Purdue University

Thesis: *Mean State Energetics of Phases I, II, and III of GATE* (excerpt published in *Monthly Weather Review*, **111**, 359-369)

#### **Bachelor of Science with Honors** in *Atmospheric Science* 1980

Department of Geoscience, Purdue University

Honors Thesis: *An Analysis of Truncation Errors in Finite Difference Estimates of Geostrophic Wind and Relative Vorticity* (excerpt published in *Monthly Weather Review*, **112**, 575-583)

### EMPLOYMENT AND POSITIONS

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**August 1995-Present:** *Associate Director*, CIMMS (August 2017-present); *Interim Director*, CIMMS (June 2014-August 2017); *Associate Director*, CIMMS (August 1995-June 2014); *Assistant Director*, CIMMS-NOAA Relations (July 2004-December 2014); *Manager*, ARM Program Data Quality Office (July 2000-present); *Associate Site Scientist*, Southern Great Plains Climate Research Facility for the ARM Program (August 1995-July 2000)

**July 1991-August 1995:** *Director*, Water and Atmospheric Resources Monitoring (WARM) Network, Illinois

State Water Survey, University of Illinois at Urbana-Champaign, including: *Manager*, Illinois Climate Network; *Manager*, Cook County Illinois Raingage Network for U.S. Army Corps of Engineers Lake Michigan Diversion Accounting; *Manager*, Imperial Valley Water Authority of Mason and Tazewell Counties Raingage Network

**June 1982-July 1991:** *Research Meteorologist*, Illinois State Water Survey, University of Illinois at Urbana-Champaign, including research on: climate diagnostics of growing season (May-August) rainfall fluctuations over central North America; time series construction of the North Atlantic Oscillation Index and Southern Oscillation Index to investigate teleconnections with Moroccan, Sub-Saharan, and United States rainfall; West African precipitation/drought and Moroccan precipitation; tropical Atlantic surface circulation patterns associated with Sub-Saharan drought during the 1970s-1980s

## FIELD RESEARCH EXPERIENCES

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**January 2009-September 2011:** Southwestern, Central and Eastern Oklahoma. Interviewed Native American farmers and traditionalists, and was involved in participant-observation activities, to learn how the farmers know and conceptualize weather and climate and how they use this knowledge in revitalized efforts to farm sustainably, seek agricultural independence, and attain food sovereignty.

**July 1992-August 1995:** Mason and Tazewell Counties, Illinois. Conducted environmental fieldwork to construct, operate and maintain a rain gauge network for the Imperial Valley Water Authority.

**July 1991-August 1995:** State of Illinois. Conducted environmental fieldwork to operate and maintain the observation sites of the Water and Atmospheric Resources Monitoring (WARM) Network, including the Illinois Climate Network.

**July 1991-August 1995:** Cook County, Illinois. Conducted environmental fieldwork to construct, operate and maintain a rain gauge network for the U.S. Army Corps of Engineers.

## RECENT PEER-REVIEWED PUBLICATIONS

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Peppler, R. A., 2021: Discourses of tornado risk in Oklahoma. In *Ecocriticism(s) and Natural Catastrophes*. Clermont-Ferrand: Presses Universitaires Blaise Pascal. In Preparation.

Johnson, V. A., K. E. Klockow-McClain, R. A. Peppler, and A. M. Person, 2020: Tornado climatology and risk perception in central Oklahoma. Resubmitted to *Weather, Climate, and Society* October 2020.

Wade, M. T., R. Peppler, and A. Person, 2020: Community education and perceptions of water reuse: A case study in Norman, Oklahoma. Submitted to *Journal of Environmental Studies and Sciences* September 2020.

Merkel, S. H., A. M. Person, R. A. Peppler, and S. M. Melcher, 2020: Climate change communication: Examining the social and cognitive barriers to productive environmental communication. *Social Science Quarterly*, **105**, 2085-2100, <https://doi.org/10.1111/ssqu.12843>.

Peppler, R. A., K. E. Klockow, and R. D. Smith, 2018: Hazardscapes: Perceptions of tornado risk and the role of place attachment in central Oklahoma. In *Explorations in Place Attachment*, J. S. Smith, ed. London: Routledge, pp. 33-45.

Peppler, R. A., and R. S. Ware, 2017: Commentary: Native American agriculturalist movements in Oklahoma. *American Indian Culture and Research Journal*, **41**, 73-86.

Peppler, R. A., 2017: "It's not balancing out like it should be." Perceptions of local climate variability in Native Oklahoma. *Weather, Climate, and Society*, **9**, 317-329.

Peppler, R. A., 2016: "They could tell what the weather was to be in advance." Native Oklahoma weather and

- climate insights from the archive. *The Chronicles of Oklahoma*, **94-4**, 414-431.
- Peppler, R. A., K. E., Kehoe, J. W. Monroe, A. K. Theisen, and S. T. Moore, 2016: The ARM Data Quality Program. *The Atmospheric Radiation Measurement (ARM) Program: The First 20 Years. Meteorological Monographs*, No. 57, American Meteorological Society, 12.1-12.14.
- Sisterson, D. L., R. A. Peppler, T. S. Cress, P. J. Lamb, and D. D. Turner, 2016: The ARM Southern Great Plains (SGP) Site. *The Atmospheric Radiation Measurement (ARM) Program: The First 20 Years. Meteorological Monographs*, No. 57, American Meteorological Society, 6.1-6.14.
- Klockow, K. E., R. A. Peppler, and R. A. McPherson, 2014: Tornado folk science in Alabama and Mississippi in the 27 April 2011 tornado outbreak. *GeoJournal*, **79**, 791-804.
- Peppler, R., 2012: The call of the wild: Local weather insights in Native Oklahoma. *Weatherwise*, **65**(5), September/October, 33-39.
- Klockow, K. E., and R. A. Peppler, 2012: Folk science: Local understandings of the tornado hazard on April 27, 2011. *Weather and Society Watch*, **6**(1), January 20, 2012 issue.
- Peppler, R. A., 2010: "Old Indian Ways" of predicting the weather: Senator Robert S. Kerr and the winter predictions of 1950-51 and 1951-52. *Weather, Climate and Society*, **2**, 200-209.
- Peppler, R. A., 2010: Fieldwork in Indian Country: A conversational experience. *Weather and Society Watch*, **4**(4), July 31, 2010 issue.
- Klockow, K. E., and R. A. Peppler, 2009: Decision making and risk: Traveling to the 2007 AMS Annual Meeting. *Weather and Society Watch*, **3**(4), July 31, 2009 issue.
- Peppler, R. A., C. N. Long, D. L. Sisterson, D. D. Turner, C. P. Bahrmann, S. W. Christensen, K. J. Doty, R. C. Eagan, T. D. Halter, M. D. Ivey, N. N. Keck, K. E. Kehoe, J.C. Liljegren, M. C. Macduff, J. H. Mather, R. A. McCord, J. W. Monroe, S. T. Moore, K. L. Nitschke, B. W. Orr, R. C. Perez, B. D. Perkins, S. J. Richardson, K. L. Sonntag, J. W. Voyles, and R. Wagener, 2008: An overview of ARM Program Climate Research Facility data quality assurance. *The Open Atmospheric Science Journal*, **2**, 192-216.

## RECENT BOOK REVIEWS

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- Jeffrey A. Lockwood. Foreword by Brianna Jones. *Behind the Carbon Curtain: The Energy Industry, Political Censorship, and Free Speech*. Randy A. Peppler. In *Great Plains Research – A Journal of Natural and Social Sciences*, **28**(1), Spring 2018, pp. 100-101.
- Martin Mahoney and Samuel Randalls, Editors. *Weather, Climate, and the Geographical Imagination: Placing Atmospheric Knowledge*. For the University of Pittsburgh Press, forthcoming in 2020.

## RECENT TEACHING EXPERIENCE

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- Instructor, University of Oklahoma, Fall 2020 (Course: Environment and Society, Department of Geography and Environmental Sustainability)
- Instructor, University of Oklahoma, Spring 2020 (Course: Environment and Society, Department of Geography and Environmental Sustainability)
- Instructor, University of Oklahoma, Spring 2020 (Course: Environmental Studies Capstone, Environmental Studies Program)
- Instructor, University of Oklahoma, Fall 2019 (Course: Environment and Society, Department of Geography and Environmental Sustainability)
- Instructor, University of Oklahoma, Spring 2019 (Course: Environment and Society, Department of Geography and Environmental Sustainability)
- Instructor, University of Oklahoma, Fall 2018 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Spring 2018 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Guest Lecturer, University of Oklahoma, Spring 2018 (Course: Geographic Research and Writing - GEOG 6953, Department of Geography and Environmental Sustainability, Mary Lawhon – Instructor), "Tales from a Practitioner".

Instructor, University of Oklahoma, Fall 2017 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Spring 2017 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Fall 2016 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Spring 2016 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Fall 2015 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Fall 2014 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Spring 2014 (Course: Environment and Society, Department of Geography and Environmental Sustainability)

Instructor, University of Oklahoma, Spring 2013 (Course: Human Geography, Department of Geography and Environmental Sustainability)

Guest Lecturer, University of Oklahoma, Summer 2012 (Course: Topics in Public Policy: Public Policy and Climate Change, Department of Political Science, Matt Nowlin – Instructor), July 18: "Climate Change Research"

Guest Lecturer, University of Oklahoma, Spring 2012 (Course: Native Science, School of Geology and Geophysics and School of Meteorology, Shannon Dulin and Kevin Kloesel – Instructors), April 19, "Things are not balancing out' – Perceptions of a Changing Climate Among Native Farmers in Southwestern Oklahoma"

Guest Lecturer, University of Oklahoma, Spring 2012 (Course: Design Studio 6, College of Architecture, Stephanie Pilat – Instructor), February 15: "National Weather Center Museum and Science Center"

Guest Lecturer, University of Oklahoma, Spring 2011 (Course: Environment and Society, Department of Geography and Environmental Sustainability, Heather Lazrus – Instructor), April 20: "Knowing Which Way the Wind Blows: Weather Observation, Belief and Practice Among Native Farmers in Oklahoma" and "Agriculture and Food Sovereignty: Efforts Among Native Peoples in Oklahoma"

Guest Lecturer, University of Oklahoma, Spring 2011 (Course: Design Studio 6, College of Architecture, Stephanie Pilat – Instructor), March 7: "National Weather Center Museum and Science Center"

Guest Lecturer, University of Oklahoma, Fall 2009 (Course: Contemporary Geographic Thought, Department of Geography and Environmental Sustainability, Laurel Smith – Instructor), December 1: "Risk and the Risk Society"

Guest Lecturer, University of Oklahoma, Fall 2009 (Course: What is Science? Honors College, Laurel Smith – Instructor), November 19: "Ways of Knowing about Climate Change"

## **RECENT STUDENT MENTORSHIPS, ADVISORSHIPS, COMMITTEES**

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University of Oklahoma Department of Geography and Environmental Sustainability Undergraduate Internship Mentor, September 2020-Present, Attie Marshall, Kathlynn Dannewald, Noah Brown [With Angela Person]

University of Oklahoma Department of Geography and Environmental Sustainability Undergraduate Summer Internship Mentor, May 2019-Present, Gabrielle Bittner, Brooke Foster [With Angela Person]

University of Oklahoma Department of Geography and Environmental Sustainability Undergraduate Summer Internship Mentor, May-August 2020, Madeline Wade [With Angela Person]

University of Oklahoma Department of Geography and Environmental Sustainability Master's Degree Committee Member, Claire Burch, August 2018-present [Chair: Rebecca Loraamm]

University of Oklahoma Department of Geography and Environmental Sustainability Senior Capstone Project Mentor, Fall 2018-Spring 2019, Chelsea Fassero, McKenzie Roberts

University of Oklahoma Department of Geography and Environmental Sustainability Senior Capstone Project Mentor, Fall 2017-Spring 2018, Victoria Johnson, Allyson Wiley

University of Oklahoma Green Week Faculty Advisor, Fall 2016-present

University of Oklahoma Geography and Environmental Sustainability Club Faculty Advisor, Fall 2016-present

University of Oklahoma Department of Geography and Environmental Sustainability Undergraduate Summer Internship Mentor, May-August 2018, Maya Henderson, Sarah Melcher, and Daniella Rodriguez [With Angela Person]

University of Oklahoma Center for Spatial Analysis Oklahoma NASA Space Grant Undergraduate Summer Internship Mentor, May-August 2017, Sonia Merkel and Allyson Wiley [With Angela Person], and May 2017-present, Victoria Johnson [With Angela Person and Kim Klockow]

University of Oklahoma School of Meteorology Senior Capstone Project Mentor, Fall 2016-Spring 2017, Ashley Pratt and Delaney Wearden: "Effective Communication of Severe Weather to the Public by Broadcast Meteorologists." [With Kim Klockow]

University of Oklahoma Department of Anthropology Doctoral Degree Committee Member, Miriam Laytner, 2015-2017 (not completed) [Kimberly Marshall, Chair, and Paul Spicer, Amanda Minks, Robert Dreibelbis]

University of Oklahoma Department of Geography and Environmental Sustainability Master's Degree Committee Member, Paulette Blanchard, M.A., May 2015 [Karl Offen, Chair, and Aonover Tarhule]

University of Oklahoma Research Experiences for Undergraduates Program Mentor, Summer 2011, Amber R. Cannon, East Central University: "Deriving Population Exposure Fatality Rate Estimates for Tornado Outbreaks Using Geographic Information Systems (GIS)." [With Kim Klockow – University of Oklahoma, and Harold Brooks – National Severe Storms Laboratory]

University of Oklahoma Research Experiences for Undergraduates Program Mentor, Summer 2010, Sarah L. Stalker, St. Cloud State University: "Public Responses to the May 10, 2010, Norman, OK Tornado." [With Kristin Calhoun, Heather Lazrus, and Kim Klockow – University of Oklahoma]

University of Oklahoma School of Meteorology Senior Capstone Project Mentor, Fall 2009-Spring 2010, Kelsey Mulder and Curtis McDonald: "Warning Decisions in Extreme Weather Events: Determining the Perception of Risks Associated with Flash Flooding in Boulder, Colorado." [With Gina Eosco and Kim Klockow – University of Oklahoma, and Jeff Lazo and Julie Demuth – National Center for Atmospheric Research]

## **RECENT RECOGNITION**

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2019 Student Heroes Panel Discussion Invited Panelist, University of Oklahoma, October 16, 2019

2017 Student Government Association Outstanding Faculty Member, University of Oklahoma

2017 Dean's Outstanding Service Award, University of Oklahoma College of Atmospheric and Geographic Sciences

2017 Dean's Outstanding Teaching Award, University of Oklahoma College of Atmospheric and Geographic Sciences

2011 Dean's Outstanding Service Award, University of Oklahoma College of Atmospheric and Geographic Sciences

2010 Ralph and Margaret Olson Scholarship, University of Oklahoma Department of Geography and Environmental Sustainability

## RECENT CONFERENCE PRESENTATIONS AND COLLOQUIA

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- Plassin, S., J. Koch, R. Peppler, M. Wilson, and A. Kim, 2021: An exploratory analysis of unconventional energy development, agriculture, drought and water resources in a semiarid region, the Permian Basin (Texas). 2021 American Association of Geographers Annual Meeting, Seattle, WA, April 3-7. Submitted Talk.
- Merkel, S. H., A. M. Person, R. A. Peppler, and S. M. Melcher, 2021: Climate Change Communication: Examining the Social and Cognitive Barriers to Productive Environmental Communication. *16<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 101<sup>st</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 10-15, Virtual, Accepted Paper 9.2.
- Peppler, R. A., 2020: Discourses of Tornado Risk in Oklahoma. International Colloquium – *Ecocriticism(s) and Natural Catastrophes, Human Sciences and Natural Sciences: Comparative Perspectives (20<sup>th</sup>-21<sup>st</sup> Centuries)*, Clermont-Ferrand, France, November 26-27. Talk. \*\*Cancelled due to COVID-19\*\*
- Plassin, S., J. Koch, R. Peppler, M. Wilson, and A. Kim, 2020: An exploratory analysis of unconventional energy development, agriculture, drought and water resources in a semiarid region, the Permian Basin (Texas). Southwest Division American Association of Geographers Annual Meeting, Virtual, November 17-19. Talk.
- Wade, M., A. Person, and R. Peppler, 2020: Public perceptions of water reuse in Norman, OK. Southwest Division American Association of Geographers Annual Meeting, Virtual, November 17-19. Talk.
- Peppler, R., and S. Plassin, 2020: Climate Planning and Action in France: Fuel Taxes, Yellow Vests, and Grand Débat. *Climate Action Planning and Justice(s) III*, 2020 American Association of Geographers Annual Meeting, Denver, CO, April 6-10. Talk. \*\*Cancelled due to COVID-19\*\*
- Wade, M., R. Peppler, and A. Person, 2020: Public Perceptions of Water Reuse in Norman, Oklahoma. *Undergraduate Student Poster Session*, 2020 American Association of Geographers Annual Meeting, Denver, CO, April 6-10. Poster. \*\*Cancelled due to COVID-19\*\*
- Peppler, R. A., 2020: Social and environmental justice in cap-and-trade emissions programs: Connections back to research and policy? *15<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 100<sup>th</sup> American Meteorological Society Annual Meeting, Boston, MA, January 12-16, Paper 9B.1.
- Peppler, R., 2019: The settler colonial narrative in Oklahoma: A bank's concept of progress. Southwest Division American Association of Geographers Annual Meeting, Fort Worth, TX, October 10-12.
- Wade, M., A. Person, and R. Peppler, 2019: Public perceptions of water reuse in Norman, Oklahoma. Southwest Division American Association of Geographers Annual Meeting, Fort Worth, TX, October 10-12.
- Bittner, G., A. Person, and R. Peppler, 2019: Greenwashing in the health and beauty industry. Southwest Division American Association of Geographers Annual Meeting, Fort Worth, TX, October 10-12.
- King, A., K. Kehoe, C. Godine, A. Sockol, R. Peppler, A. Theisen, and J. Monroe, 2019: Plotting tool updates – ARM Data Quality Office. *Tenth Atmospheric System Research (ASR) Science Team Meeting*, Bethesda, MD, June 10-13, U.S. Department of Energy. Poster.
- Theisen, A., N. Hickmon, S. Collis, R. Jackson, K. Kehoe, A. King, C. Godine, A. Sockol, and R. Peppler, 2019: Development of a framework to allow for easy sharing of code. *Tenth Atmospheric System Research (ASR) Science Team Meeting*, Bethesda, MD, June 10-13, U.S. Department of Energy. Poster.
- Peppler, R., T. Gliedt, G. Gress, and A. Miller, 2019: Community connections at the University of Oklahoma: Green Week, Geography and Environmental Sustainability Club, and Geography Day. *Geography Education Poster Competition: Making Connections to The Community*, 2019 American Association of Geographers Annual Meeting, Washington, DC, April 3-7. Poster.

- Person, A., S. Melcher, and R. Pepler, 2019: Practical rural recycling: Intersections between municipalities, companies, and residents. *Geographies of waste: dispositions, transformations, contradictions II*, 2019 American Association of Geographers Annual Meeting, Washington, DC, April 3-7.
- Peppler, R. A., 2019: An inexhaustible discourse: Oklahoma's oil and gas industry public relations campaign. Department of Geography and Environmental Sustainability Colloquium Series, January 30.
- Johnson, V. A., K. E. Klockow-McClain, and R. A. Pepler, 2019: Place attachment, climatology, and tornado risk perception in central Oklahoma. *14<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 99<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ, January 6-10, Paper 12.5.
- Peppler, R. A., 2018: An inexhaustible discourse: Oklahoma's oil and gas industry public relations campaign. Southwest Division American Association of Geographers Annual Meeting, Baton Rouge, LA, October 3-6.
- Peppler, R. A., 2018: An inexhaustible discourse: Oklahoma's oil and gas industry public relations campaign. *Resources and Conflict*, 2018 American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14.
- Wiley, A., A. Person, and R. Pepler, 2018: Contentious or Collegial? Exploring the Diamond Pipeline across disciplines in the land of oil and gas. *Activist Geographies*, 2018 American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14.
- Theisen, A., R. Pepler, K. Kehoe, and J. Monroe, 2018: ARM Data Quality Office: Fusion of automated and manual QA/QC techniques. *Ninth Atmospheric System Research (ASR) Science Team Meeting*, Vienna, VA, March 19-23, U.S. Department of Energy. Poster.
- Smith, R., K. Klockow McClain, and R. Pepler, 2018: "What's a Corridor, and Where Exactly is the Metro Area?" Geographic Descriptors and Hazardous Weather Communication. Department of Geography and Environmental Sustainability Colloquium Series, February 28.
- Peppler, R. A., 2018: Relevance of climate variability to Indigenous agriculturalists in Oklahoma. *13<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 98<sup>th</sup> American Meteorological Society Annual Meeting, Austin, TX, January 7-11, Paper TJ8.5.
- Peppler, R. A., 2017: The social construction of civilization in Oklahoma: One bank's narrative of the origin story and the concept of progress. *Social Constructs and Indigenous Resistance*, 2017 American Association of Geographers Annual Meeting, Boston, MA, April 5-9.
- Klockow, K. E., R. A. Pepler, and P. T. Marsh, 2017: A closer look at perceived tornado behavior: Disentangling the effects of place attachment and local climatology. *Decisions, Decisions...Decision Making During Disasters*, 2017 American Association of Geographers Annual Meeting, Boston, MA, April 5-9. Co-presented by Klockow and Pepler.
- Kehoe, K., J. Monroe, J. King, A. Theisen, S. Moore, and R. Pepler, 2017: ARM Data Quality Office. *Eighth Atmospheric System Research (ASR) Science Team Meeting*, Vienna, VA, March 13-17, U.S. Department of Energy. Poster.
- Klockow, K. E., R. A. Pepler, and P. T. Marsh, 2017: A closer look at perceived tornado hot spots and no-go zones: Disentangling the effects of place attachment and local climatology. *12<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 97<sup>th</sup> American Meteorological Society Annual Meeting, Seattle WA, January 22-26, Paper 7B.4. Co-presented by Klockow and Pepler.
- Theisen, A., J. Monroe, S. Moore, J. King, K. Kehoe, and R. Pepler, 2016: ARM Data Quality Office. *Seventh Atmospheric System Research (ASR) Science Team Meeting*, Vienna, VA, May 2-5, U.S. Department of Energy. Poster.
- Peppler, R. A., 2016: Tornado Stories Revisited: Perceptions of Risk and the Role of Place. Department of Geography and Environmental Sustainability Colloquium Series, April 22.
- Klockow, K. E., R. A. Pepler, A. Goodin, and J. Correia Jr., 2016: Place attachment and tornado risk perception in the Oklahoma City metro area. *Place Attachment Research II*, 2016 American Association of Geographers Annual Meeting, San Francisco, CA, March 29-April 2. Co-presented by Klockow and Pepler.

- Klockow, K. E., R. A. Peppler, and A. S. Goodin, 2016: Place attachment and tornado risk perception in the Oklahoma City metro area. *11th Symposium on Societal Applications: Policy, Research and Practice*, 96<sup>th</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 10-14, Paper 3.4. Co-presented by Klockow and Peppler.
- Klockow, K. E., and R. A. Peppler, 2015: Local tornado knowledge, beliefs, and risk perception - building upon the central Oklahoma tornado town hall meetings of fall 2012. *Weather and Society Integrated Studies (WAS\*IS)*, 2015 American Association of Geographers Annual Meeting, Chicago, IL, April 21-25. Co-presented by Klockow and Peppler.
- King., J., K. Kehoe, J. Monroe, S. Moore, R. Peppler, and A. Theisen, 2015: Aerosol Observing System data quality monitoring at the ARM Data Quality Office: Current capabilities and future prospects. *Sixth Atmospheric System Research (ASR) Science Team Meeting*, Vienna, VA, March 16-19, U.S. Department of Energy. Poster.
- Eosco, G. M., K. E. Klockow, R. A. Peppler, and H. Lazrus, 2015: The Societal Applications Symposium: Ten years of growth, and predictions for the next ten years (Core Science Lecture). *10th Symposium on Societal Applications: Policy, Research and Practice*, 95<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ, January 4-8, Paper 1.2. Co-presented by Eosco, Klockow, and Peppler.
- Sovo, M., R. Ware, T. Fuller, K. Winton, R. Peppler, T. Troy, and W. Voelker, 2014: Perpetuation of cultural resources in Oklahoma: An intertribal traditional resources alliance. *Climate Change and Indigenous Peoples*, 2014 American Association of Geographers Annual Meeting, Tampa, FL, April 8-12. Presented by Peppler.
- Kehoe, K., R. Peppler, S. Moore, J. Monroe, and A. Theisen, 2014: ARM Data Quality Office Historical Data Quality Report (DQR) Review. *Fifth Atmospheric System Research (ASR) Science Team Meeting*, Potomac, MD, March 10-13, U.S. Department of Energy. Poster.
- Peppler, R. A., and L. C. Smith, 2014: Who gets to tell the story? Visualizing climate change through the lens of Indigenous Geographies. *Ninth Symposium on Policy and Socio-Economic Research*, 94<sup>th</sup> American Meteorological Society Annual Meeting, Atlanta, GA, February 2-6, Paper 5.2. Presented by Peppler.
- Peppler, R. A., and L. C. Smith, 2013: Visualizing climate change through the lens of Indigenous geographies. *Climate Change and Indigenous Peoples*, 2013 American Association of Geographers Annual Meeting, Los Angeles, CA, April 9-13. Presented by Peppler.
- Moore, S., K. Kehoe, J. Monroe, R. Peppler, and A. Theisen, 2013: ARM Climate Research Facility Data Quality Office. *Fourth Atmospheric System Research (ASR) Science Team Meeting*, Potomac, MD, March 18-21, U.S. Department of Energy. Poster.
- Klockow, K. E., R. A. Peppler, R. Smith, N. C. Grams, A. Cannon, and R. A. McPherson, 2013: Tornado stories in central Oklahoma: Town Hall meetings to help understand local knowledge and beliefs. *Eighth Symposium on Policy and Socio-Economic Research*, 93<sup>rd</sup> American Meteorological Society Annual Meeting, Austin, TX, January 6-10. Presented by Peppler.
- Cannon, A., K. E. Klockow, M. Micozzi, R. A. Peppler, and H. E. Brooks, 2013: Comparative analysis of the tornado outbreaks of April 3-4, 1974 and April 27-28, 2011: Deriving population exposure fatality rate estimates for tornado outbreaks using Geographic Information Systems (GIS). *Eighth Symposium on Policy and Socio-Economic Research*, Amer. Meteor. Soc., Austin, TX, January 6-10, Paper 4A.1. Presented by Cannon.
- Moore, S., G. Prakash, K. Kehoe, R. McCord, and R. Peppler, 2012: Automated use of data quality information currently stored in ARM Data Quality Reports. *Third Atmospheric System Research (ASR) Science Team Meeting*, Arlington, VA, March 12-16, U.S. Dept. of Energy, Poster.
- Monroe, J., K. Lazar, S. Beus, and R. Peppler, 2012: Improving quality control tools and procedures for ARM Value-Added Products. *Third Atmospheric System Research (ASR) Science Team Meeting*, Arlington, VA, March 12-16, U.S. Dept. of Energy, Poster.
- Theisen, A., S. Collis, S. Giangrande, and R. Peppler, 2012: Quality control techniques for scanning ARM



- radar. *Third Atmospheric System Research (ASR) Science Team Meeting*, Arlington, VA, March 12-16, U.S. Dept. of Energy, Poster.
- Peppler, R. A., 2012: "Things are not balancing out" – Perceptions of a changing climate among Native farmers in southwestern Oklahoma. *Climate Change and Indigenous Peoples I – Indigenous Knowledge and Western Science*, 2012 American Association of Geographers Annual Meeting, New York City, NY, February 23-28.
- Klockow, K. E., and R. A. Peppler, 2012: "Folk Science": Local, situated understandings of the tornado hazard on April 27, 2011 in Alabama and Mississippi. *Seventh Symposium on Policy and Socio-Economic Research*, 92<sup>nd</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 22-26. Presented by Peppler.
- Cannon, A., K. E. Klockow, R. A. Peppler, and H. E. Brooks, 2012: Deriving population exposure fatality rate estimates for tornado outbreaks using Geographic Information Systems (GIS). *Seventh Symposium on Policy and Socio-Economic Research*, 92<sup>nd</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 22-26. Presented by Cannon.
- Peppler, R. A., 2011: Agriculture and food sovereignty as pathways to healthier and more sustainable lifestyles: Efforts among Native peoples in Oklahoma. *The Decolonization of Diet: Examining Health and Food Practices 2*, 2011 American Association of Geographers Annual Meeting, Seattle, WA, April 12-16.
- Kehoe, K. E., and R. A. Peppler, 2011: The Atmospheric Radiation Measurement Program Climate Research Facility: Building a climate data record to improve general circulation models for climate research and prediction. *The Generation and Use of Climate Data Records*, 2011 American Association of Geographers Annual Meeting, Seattle, WA, April 12-16. Presented by Kehoe.
- Peppler, R. A., 2011: Fieldwork in Indian Country: A conversational experience. *Sixth Symposium on Policy and Socio-Economic Research*, 91<sup>st</sup> American Meteorological Society Annual Meeting, Seattle, WA, January 23-27.
- Stalker, S. L., K. M. Kuhlman, H. Lazrus, R. A. Peppler, and K. E. Klockow, 2011: Public perceptions of the 10 May 2010 Oklahoma and the 17 June 2010 Minnesota tornado outbreaks. *Sixth Symposium on Policy and Socio-Economic Research*, 91<sup>st</sup> American Meteorological Society Annual Meeting, Seattle, WA, January 23-27. Presented by Stalker.
- Theisen, A., K. Kehoe, J. Monroe, S. Moore, T. Noensie, and R. Peppler, 2011: ARM Data Quality Office inspection tools and techniques. *Second Atmospheric System Research (ASR) Science Team Meeting*, San Antonio, TX, March 28-April 1, U.S. Dept. of Energy, Poster.
- Peppler, R. A., 2010: Knowing which way the wind blows: Weather observation, belief and practice among Native farmers in Oklahoma – first impressions. *Climate Change and Environmental Issues: Indigenous Peoples II*, 2010 American Association of Geographers Annual Meeting, Washington, DC, April 14-18.
- Peppler, R. A., 2010: Knowing which way the wind blows: Weather observation, belief and practice in Native Oklahoma (first impressions). *Fifth Symposium on Policy and Socio-Economic Research*, 90<sup>th</sup> American Meteorological Society Annual Meeting, Atlanta, GA, January 17-21.
- Monroe, J. W., S. T. Moore, K. E. Kehoe, and R. A. Peppler, 2010: Quality control tools at the ARM Climate Research Facility Data Quality Office. *First Atmospheric System Research (ASR) Science Team Meeting*, Bethesda, MD, March 15-19, U.S. Dept. of Energy, Poster.

## RECENT CONFERENCES AND CONFERENCE SESSIONS ORGANIZED AND/OR CHAIRED

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- "Climate Issues. Part I: Communication, Assessment, and Justice." Oral Session 9 at *16<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 101<sup>st</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 10-15, 2021. Co-Chair with Barbara Mayes Boustead.
- "Social Justice and Scientific Practice in the 21<sup>st</sup> Century." Oral Session 9B at *15<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 100<sup>th</sup> American Meteorological Society Annual Meeting,

- Boston, MA, January 12-16, 2020. Co-Chair with Susan Jasko.
- “History, Landscape, and Meaning.” Oral Session 8A at 2019 Southwest Division American Association of Geographers Annual Meeting, Fort Worth, TX, October 10-12, 2019. Chair.
- “Identifying and Assessing the Effects of Forecast and Warning Communication (In)Consistency on Different Recipients.” Panel Discussion at the *14<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 99<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ, January 6-10, 2019. Organizer and Co-Chair with C. Williams and K. Klockow McClain.
- “From Vulnerable to Resilient: Leveraging the Role of Communication.” Themed Joint Oral Session 8 at *13<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 98<sup>th</sup> American Meteorological Society Annual Meeting, Austin, TX, January 7-11, 2018. Chair.
- “Social Constructs and Indigenous Resistance.” Oral Session at 2017 American Association of Geographers Annual Meeting, Boston, MA, April 5-9. Chair.
- Special Symposium on Individual, Social, and Cultural Observations in Weather and Climate Contexts*, 97<sup>th</sup> American Meteorological Society Annual Meeting, Seattle, WA, January 22-26, 2017. Planning Committee Member.
- “Observations of Communities.” Panel Discussion 4 at *12<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 97<sup>th</sup> American Meteorological Society Annual Meeting, Seattle, WA, January 22-26, 2017. Co-organizer with many others, and Discussant.
- “Planning and Preparedness for Climate Variability, Extreme Events, and Climate Change.” Oral Session 11 at *12<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 97<sup>th</sup> American Meteorological Society Annual Meeting, Seattle, WA, January 22-26, 2017. Chair.
- Peter J. Lamb Symposium*, 96<sup>th</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 10-14, 2016. Chair of the Organizing Committee – also, M. Richman, L. Leslie, A. Tarhule, R. Cornforth, H. Virji, Z. Segele, M. I. Lele.
- “Local Voices: Louisiana Bayou Tribes Discuss Living with Climate Challenges.” Panel Discussion at *11<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 96<sup>th</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 10-14, 2016. Co-Organizer and Co-Chair with H. Lazrus.
- “‘What if the water can’t be stopped?’ Tribal Resilience in an Age of Sea Level Rise.” Town Hall Meeting at *11<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 96<sup>th</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 10-14, 2016. Co-Organizer and Co-Chair with H. Lazrus.
- “Monitoring Climate Change in Indian Country.” Oral Session at 2015 American Association of Geographers Annual Meeting, Chicago, IL, April 21-25. Chair and Discussant.
- 10<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice*, 95<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ, January 4-8, 2015. Organizer and Co-Chair with K. E. Klockow.
- Ninth Symposium on Policy and Socio-Economic Research*, 94<sup>th</sup> American Meteorological Society Annual Meeting, Atlanta, GA, February 2-6, 2014. Organizer and Co-Chair with K. E. Klockow.
- Eighth Symposium on Policy and Socio-Economic Research*, 93<sup>rd</sup> American Meteorological Society Annual Meeting, Austin, TX, January 6-10, 2013. Organizer and Co-Chair with K. E. Klockow.
- “Climate Change and Indigenous Peoples II – Policies and Responses.” Oral Session at 2012 American Association of Geographers Annual Meeting, New York City, NY, February 23-28, 2012. Co-Chair with D. Herman.
- “Ways of Knowing: Communicating with Diverse Populations – The Role of Technology in Conveying ‘Ways of Knowing’.” Oral and Poster Sessions at *Seventh Symposium on Policy and Socio-Economic Research*, 92<sup>nd</sup> American Meteorological Society Annual Meeting, New Orleans, LA, January 22-26, 2012. Organizer and Co-Chair with H. Lazrus.
- “Ways of Knowing: Dismantling the Divide between Social and Natural Sciences in Weather and Climate Research.” Oral and Poster Sessions at *Sixth Symposium on Policy and Socio-Economic Research*, 91<sup>st</sup>

American Meteorological Society Annual Meeting, Seattle, WA, January 23-27, 2011. Organizer and Co-Chair with H. Lazrus.

“Ways of Knowing: Traditional Knowledge as Key Insight for Dealing with a Changing Climate.” Oral and Poster Sessions at *Fifth Symposium on Policy and Socio-Economic Research*, 90<sup>th</sup> American Meteorological Society Annual Meeting, Atlanta, GA, January 17-21, 2010. Organizer and Co-Chair with H. Lazrus.

## **RECENT LARGER GRANTS AND CONTRACTS**

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Battelle-Pacific Northwest National Laboratory, 2016-2019, R. A. Pepler and K. E. Kehoe: “Data Quality Manager for the ARM Program.”

NSSL Director Discretionary Research Fund, 2014-2015, R. A. Pepler and K. E. Klockow: “Local Tornado Knowledge, Beliefs, and Risk Perception – Building Upon the Central Oklahoma Tornado Town Hall Meetings of Fall 2012.”

Battelle-Pacific Northwest National Laboratory, 2013-2015, R. A. Pepler and K. E. Kehoe: “Data Quality Manager for the ARM Program.”

Battelle-Pacific Northwest National Laboratory, 2010-2012, R. A. Pepler and K. E. Kehoe: “Data Quality Manager for the ARM Program.”

## **CURRENT PROFESSIONAL AFFILIATIONS**

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American Meteorological Society