

Erinanne M. Saffell, PhD

Office Address

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Education

Doctor of Philosophy in Geography

Arizona State University

"The Applicability of Synoptic Classifications: Analysis of an Urban Complex"

Chair: Andrew Ellis

December, 2004

Tempe, AZ

Master of Arts in Geography

Arizona State University

"Urban-Rural Humidity Variations in Phoenix, Arizona"

Chair: Andrew Ellis

August, 2001

Tempe, AZ

Bachelor of Science

Arizona State University

Major: Geography

Graduation Honors: Summa Cum Laude

August, 1999

Tempe, AZ

Employment

Lecturer

School of Geographical Sciences and Urban Planning

Arizona State University

2009-present

Tempe, AZ

Director: Trisalyn Nelson

Instructional Professional

School of Sustainability

Arizona State University

2014-present

Tempe, AZ

Director: Christopher Boone

Residential Faculty – Geography

Maricopa County Community College District

Mesa Community College

2007-present

Mesa, AZ

Department Chair: Annalisa Alvrus

Senior Hydrologist

Flood Control District of Maricopa County

Flood Warning, Engineering Division

2006-2007

Phoenix, AZ

Manager: Steve Waters

Faculty Associate

Arizona State University

School of Geographical Sciences

2006-2007

Tempe, AZ

Acting Director: Tony Brazel

Assistant Professor

East Carolina University

Department of Geography

2004-2005

Greenville, NC

Department Chair: Ron Mitchelson

Courses Taught

Lower-division

- Extreme Weather and Climate
- Introduction to Climatology
- Introduction to Meteorology
- Introduction to Physical Geography
- Introduction to Human Geography
- Natural Hazards and Disasters
- Society and Environment
- Sustainability Professional Skills
- The Water Planet
- Weather and Climate
- World Regional Geography

Upper-division and graduate level

- Fortran Programming
- Global Climates
- Hydroclimatology
- Thirteen Ways Nature Kills

Publications/Posters

- Saffell, EM and King, M. 2015. Professional Skills in Sustainability. Poster: *Association for the Advancement of Sustainability in Higher Education*. AASHE Annual Conference and Exposition, Minneapolis, MN.
- Saffell, EM. 2007. The modernization and expansion of the Volunteer Observer Network: opportunity to incorporate public education and outreach. Proceedings: *North American Surface Water Quality Conference and Exposition*.
- Saffell, EM. 2004. *The Applicability of Synoptic Classifications: Analysis of an Urban Complex*. Arizona State University Doctoral Dissertation. 118 pp.
- Hawkins, TW, Brazel, AJ, Stefanov, WL, Bigler, W, and Saffell, EM. 2004. The role of rural variability in urban heat island determination for Phoenix, Arizona. *Journal of Applied Meteorology*, Volume 43:476-486.
- Ellis, AW, Saffell, EM, and Hawkins, TW. 2004. A method for defining monsoon onset and demise in the southwestern United States. *International Journal of Climatology*. Volume 24:247-265.
- Saffell, EM, Editor. 2003. *Introductory Physical Geography Laboratory Manual*. Hayden-McNeil Publishers, Plymouth, MI. 174 pp.
- Saffell, EM and Ellis, AW. 2002. Urban-rural humidity variations in Phoenix, Arizona. *Journal of Arizona-Nevada Academy of Science*. Volume 34:53-64.
- Saffell, EM, Editor. 2002. *Physical Geography Laboratory Manual*. Thomson Publications. Florence, KY. 134 pp.
- Saffell, EM. 2001. *Urban-Rural Humidity Variations in Phoenix, Arizona*. Arizona State University Masters Thesis. 87 pp.

Presentations

- Weather Ready Nation: preparing for extreme flooding. *Science, Technology, Engineering, Math, and Social Studies Institute (AZGA STEMSS)*, June, 2016. Tempe, AZ.
- Forecasting the storm: basic meteorology tools. *AZ Monsoon Convention*, June, 2016. Chandler, AZ.
- How can I teach about weather? *Science, Technology, Engineering, Math, and Social Studies Institute (AZGA STEMSS)*, July, 2013. Tempe, AZ.
- Geoscience activities in the classroom. *AZGA GeoConference*, September, 2012. Scottsdale, AZ.
- The science of climate change. *Explorations Educator Workshop, Arizona Science Center*, March, 2008. Phoenix, AZ.
- Implications of the Urban Heat Island. *Arizona Chapter, American Society of Safety Engineers*, March, 2008. Phoenix, AZ.
- The modernization and expansion of the Volunteer Observer Network: opportunity to incorporate public education and outreach. *North American Surface Water Quality Conference and Exposition*, August, 2007. Phoenix, AZ.
- Understanding weather. *Explorations Educator Workshop, Arizona Science Center*, June, 2007. Phoenix, AZ.
- Flood warning procedures and operations. *Maricopa County Risk Management Safety Fair*, January, 2007. Phoenix, AZ.
- The Urban Heat Island of Phoenix, AZ under differing synoptic regimes. *101st Association of American Geographers Annual Meeting*, April, 2005. Denver, CO.
- Urban-rural humidity variations in Phoenix, Arizona. *4th American Meteorological Society Symposium on the Urban Environment*, May, 2002. Norfolk, VA.
- Spatio-temporal variations in humidity. *98th Association of American Geographers Annual Meeting*, February, 2001. Los Angeles, CA.
- Spatial analysis of dewpoint trends. *97th Association of American Geographers Annual Meeting*, February, 2002. New York, NY.
- The urban response to moisture. *Arizona State University Research Symposium for Graduates in Earth, Life, and Social Sciences*, February, 2000. Tempe, AZ.

Grants

- 2016 Co-Principle Investigator. Phoenix Cubesat Mission (\$198140)
- 2014 Faculty and Professional Growth, MCCCCD (Sabbatical)
- 2012 Faculty and Professional Growth, MCCCCD (\$1077)
- 2011 Faculty and Professional Growth, MCCCCD (\$1128)
- 2010 Faculty and Professional Growth, MCCCCD (\$1479)
- 2008 Faculty Educational Development Grant, Mesa Community College (\$7640)
- 2004 Gaswirth Award, Arizona State University (\$2430)
- 2002 Research and Travel Award, IGERT (\$1000)
- 2002 American Meteorological Society Travel Grant (\$700)

- 2001 Graduate College Travel Grant, Arizona State University (\$200)
 2001 Associated Students of ASU Travel Award (\$350)

Professional Affiliations

American Meteorological Society
 American Meteorological Society, Central AZ Chapter (Executive Committee)
 International Association for Urban Climate
 National Weather Association
 National Weather Association, Central AZ Chapter (Executive Committee)

Honors and Awards

- 2012 Mentor, Phi Theta Kappa
 2011 Friend, Arizona Geographical Alliance
 2003-2004 Graduate College Award for Tuition, Arizona State University
 2001-2004 University Graduate Scholarship, Arizona State University
 1999-2000 Graduate Scholar Scholarship, Arizona State University
 1998-1999 Regent's Scholarship, Arizona State University
 1998-1999 Lambda Alpha International Scholarship
 1998 Sophomore Star Award, Mortarboard Honor Society
 1997-1999 Dean's Honor List

Certificates

Effective Communication. FEMA IS-00242, Emergency Management Institute, U.S. Department of Homeland Security. 2007.

Leadership and Influence. FEMA IS-00240, Emergency Management Institute, U.S. Department of Homeland Security. 2007.

Building Partnerships in Tribal Communities. FEMA IS-00650, Emergency Management Institute, U.S. Department of Homeland Security. 2006.

Anticipating Hazardous Weather and Community Risk. FEMA IS-00271, Emergency Management Institute, U.S. Department of Homeland Security. 2006.

Community Hurricane Preparedness. FEMA IS-00324, Emergency Management Institute, U.S. Department of Homeland Security. 2006.

Service and Outreach

2015-present	Executive Committee, AMS-NWA Central Arizona Chapter
2011-present	Director, SWIFT Weather Camp Steering Committee
2011-12	Local Implementation Team Member, DataStreme ECS Project, AMS
2010-15	Secretary/Treasurer, AMS Central Arizona Chapter
2010-11	Coordinator, Summer Youth College, MCC, " <i>Stormchasing</i> "
2009-present	Member, MCCCDC Instructional Council Sustainability – Chair 2013-2014
2007	Member, FCD Committee on Assessing Heat Warning Forecasts
2006	Presenter, "Desert Safety and Survival", FCDMC Operations
2004-2005	Member, ECU Geography Curriculum Committee
2003	Supervisor, Student Service Learning Project, Mesa Community College
2002	Presenter, Arizona Science Center Summer Program
2002	Moderator, National Geography Bee, State of Arizona
2001-2002	Member, ASU Graduate Earth and Life Sciences Committee
2000-2001	Member, Graduate Student Advisory Board, Associated Students of ASU
2000-2001	Chair, Graduate Research Exposition Sub-Committee, Associated Students of ASU
2001-2002	Host, SEE Arizona State University (elementary school outreach)
1999-2000	Judge, National Geography Bee, State of Arizona
1999-2000	Host, ASU International Earth Science Day

Fellowships

2002-2004	Preparing Future Faculty (PFF)
2003	Graduate Teaching in K-12 Education (GK-12)
2001-2002	Integrative Graduate Education and Research Training (IGERT)