

Timothy Wayne Hawkins

Department of Geography and Earth Science
Shippensburg University, 1871 Old Main Drive, Shippensburg, PA 17257
Work: (717) 477-1662, Fax: (717) 477-4029, twhawk@ship.edu

EDUCATION

Ph.D. Geography, Arizona State University, May 2004

Certificate in Atmospheric Sciences

Advisor: Andrew W. Ellis

Committee: Randall S. Cerveny, Robert C. Balling, Anthony J. Brazel, Jon A. Skindlov

Dissertation: Snowpack Evolution and Snowmelt Modeling in Sub-Tropical Climates

M.A. Geography, Arizona State University, May 2001

Advisor: Andrew W. Ellis

Committee: Randall S. Cerveny, Robert C. Balling

Thesis: The North American Monsoon-Snow Cover Teleconnection

B.A. Geography, Summa Cum Laude, Colgate University, May 1998

Advisor: Adam W. Burnett

Thesis: The Relationship between Stable Oxygen Isotopes and Atmospheric Circulation

PROFESSIONAL EXPERIENCE

Professor, Department of Geography and Earth Science, Shippensburg University, 2012-Present

Interim Chair, Department of Geography and Earth Science, Shippensburg University, Fall 2011.

Associate Professor, Department of Geography and Earth Science, Shippensburg University,
2009-2012

Assistant Professor, Department of Geography and Earth Science, Shippensburg University,
2004-2009

Teaching Assistant, Department of Geography, Arizona State University, 1999-2004

Research Assistant, Department of Geography, Arizona State University, 1999-2004

Research Assistant, Department of Geography, Colgate University, 1997-1998

Research Student, Sea Education Association, 1997

Research Assistant, Research and Development Laboratory, Genzyme Genetics, 1995-1997,
1998-1999

PUBLICATIONS

Refereed (* with students)

- Woltemade, CW, TW Hawkins C Jantz, and S Drzyzga. 2020. Impact of Changing Climate and Land Cover on Flood Magnitudes on the Delaware River Basin, USA. *Journal of the American Water Resources Association* 56(3): 507-527.
- Hawkins, TW and Woltemade, CW. 2019. Impact of Projected 21st Century Climate Change on Basin Hydrology and Runoff in the Delaware River Basin, USA. *Journal of Water and Climate Change*.
- *Moyer, AN and TW Hawkins. 2017. River Effects on the Heat Island of a Small Urban Area. *Urban Climate* 21: 262-277.
- Woltemade, CJ and TW Hawkins. 2016. Stream Temperature Impacts because of Changes in Air Temperature, Land Cover, and Stream Discharge: Navarro River Watershed, California, USA. *River Research and Applications* 32(10):2020-2031.
- *Frick, C and TW Hawkins. 2016. A Spatiotemporal Analysis of Tropical Cyclone Tracks in the Atlantic Basin and their Relationship to El Niño-Southern Oscillation. *Physical Geography* 37(1): 26-37.
- *Park, G and TW Hawkins. 2015. An Examination of the Effect of Building Compactness and Green Roofs on Indoor Temperature through the Use of Physical Models. *The Geographical Bulletin* 56:93-101.
- Hawkins, TW. 2015. Simulating the Impacts of Projected Climate Change on Streamflow Hydrology for the Chesapeake Bay Watershed. *Annals of the Association of American Geographers* 105:627-648.
- * Hawkins, TW and OA Braun. 2012. Assessing the Influence of Weather Type and Rural Land Cover on a Small Rural Urban Heat Island. *Middle States Geographer* 44:36-46.
- * Gettig, TE and TW Hawkins. 2012. A Meteorologically-Based Raptor Migration Forecast Model for Hawk Mountain Sanctuary, Pennsylvania. *The Geographical Bulletin* 53(2):79-92.
- * Hawkins, TW and BJ Austin. 2012. Simulating Streamflow and the Effects of Projected Climate Change on the Savage River, Maryland, USA. *Journal of Water and Climate Change* 3(1):28-43.
- * Smith K and TW Hawkins. 2011. Hydroclimatic Trends in the Susquehanna River Basin. *The Pennsylvania Geographer* 49(2):34-49.

- *Pompeii, WC and TW Hawkins. 2011. Assessing the Impact of Green Roofs on Urban Heat Island Mitigation: A Hardware Scale Modeling Approach. *The Geographical Bulletin* 52:52-61.
- *Hawkins, TW and K Shuren. 2011. Historical and Projected Climate Trends Along the Appalachian Trail, USA and the Implications for Trail Usage. *Physical Geography* 32:22-51.
- *Hawkins, TW and LA Holland. 2010. Synoptic and Local Weather Conditions Associated with PM_{2.5} Concentration in Carlisle, Pennsylvania. *Middle States Geographer* 43:72-84.
- * Hawkins, TW, KJ Kiphart, and JS Smith. 2010. Teaching Upper-Atmosphere Meteorology using Two and Three-Dimensional Models: A Pilot Study. *Bulletin of the American Meteorological Society* 91:549-556.
- Hawkins, TW and AW Ellis. 2010. The Dependence of Streamflow on Antecedent Subsurface Moisture in an Arid Climate. *Journal of Arid Environments* 74:75-86.
- *Stengl, S, TW Hawkins, and K Fuellhart. 2009. Temperature and Precipitation Relationships with Tree Ring Growth for Red Oak and Pin Oak Specimens in South-Central Pennsylvania. *The Pennsylvania Geographer* 47:114-123.
- Hawkins TW. 2009. Book Review: Rivers in History: Perspectives on Waterways in Europe and North America. Ed. C Mauch and T Zeller. *The Pennsylvania Geographer* 47:170-172.
- Hawkins TW. 2009. Hydroclimatic Change on the Salt and Verde Watersheds, Arizona. *The Proceedings of the American Water Resources Spring Specialty Conference: Climate Change and Water Resources*, Anchorage Alaska, May 4-6, 2009.
- *Doyle, D and TW Hawkins. 2008. Assessing a Small Summer Urban Heat Island in Rural South Central Pennsylvania. *The Geographical Bulletin* 49:65-76.
- Ellis, AW, TW Hawkins, RC Balling, and P Gober. 2008. Estimating Future Runoff Levels for a Semi-Arid Fluvial System in Central Arizona. *Climate Research* 35:227-239.
- *Goetz KK and TW Hawkins. 2007. Seasonal and Historical Evaporation Estimates for a Small Reservoir in South Central Pennsylvania. *The Pennsylvania Geographer* 45:34-47.
- Hawkins, TW. 2007. Hydrologic Analysis of Localized Property Flooding in South Central, Pennsylvania. *The Pennsylvania Geographer* 45:99-112.
- Hawkins, TW and AW Ellis. 2007. A Case Study of the Energy Budget of a Snowpack in the Arid, Subtropical Climate of the Southwestern United States. *Journal of the Arizona Nevada Academy of Sciences* 39:1-13.

- Hawkins, TW. 2005. Parameterization of the Snowmelt Runoff Model for the Salt-Verde System, Arizona during Drought Conditions. *Journal of the Arizona Nevada Academy of Sciences* 38:66-73.
- Oberle, A, W Bigler, and TW Hawkins. 2005. The Role of a PhD Field Exam in Preparing Graduate Students for Academic Careers. *The Professional Geographer* 57:452- 461.
- Ellis, AW, EM Saffell, and TW Hawkins. 2004. A Method for Defining Monsoon Onset and Demise in the Southwestern United States. *International Journal of Climatology* 24:247-265.
- Hawkins, TW, AJ Brazel, WL Stefanov, W Bigler, and EM Saffell. 2004. The Role of Rural Variability in Urban Heat Island Determination for Phoenix, Arizona. *Journal of Applied Meteorology* 43:476-486.
- Hawkins, TW. 2003. Geostatistical Analysis of Arizona Summertime Precipitation. *Journal of the Arizona Nevada Academy of Sciences* 36:9-17.
- Hawkins, TW, AW Ellis, JA Skindlov, and D Reigle. 2002. Intra-Annual Analysis of the North American Snow Cover- Monsoon Teleconnection: Seasonal Forecast Utility. *Journal of Climate* 15:1743-1753.
- Ellis, AW and TW Hawkins. 2001. An Apparent Atmospheric Teleconnection between Snow Cover and the North American Monsoon. *Geophysical Research Letters* 28:2653-2656.
- Other (*with students)**
- *Spatz JR and TW Hawkins. 2009. Shippensburg University's Greenhouse Gas Emissions. *Final Report prepared for administration and Environmental Steering Committee.*
- Hawkins, TW. 2007. Hydroclimatic History of the Salt and Verde Watersheds, Arizona. *Final Report prepared for Salt River Project, Phoenix, Arizona.*
- Hawkins, TW. 2006. Simulating Soil Moisture Content on the Colorado, Salt, and Verde River Basins. *Final Report prepared for Salt River Project, Phoenix, Arizona.*
- Hawkins, TW. 2006. Hydrologic Report for the June 5 and June 7, 2003 Flood Events at the Wollaston Property, 35 Field View Court, Greencastle, Franklin County, Pennsylvania. *Expert document prepared for Franklin County Court of Common Pleas / Civil Action No. 2003-2584.*
- Hawkins, TW. 2004. Snowpack Evolution and Snowmelt Modeling in Sub-Tropical Climates. *Arizona State University Doctoral Dissertation.*

Hawkins, TW. 2001. The North American Snow Cover-North American Monsoon Teleconnection. *Arizona State University Master's Thesis*.

Hawkins, TW and AW Ellis. 2000. North American Snow Cover: A Potential Forecast Tool for the North American Monsoon. *Proceedings of the Second Southwest Weather Symposium*. Tucson AZ, September 2000.

Hawkins, TW. 1998. The Relationship between Stable Oxygen Isotopes and Atmospheric Circulation. *Colgate University Senior Honors Thesis*.

CONFERENCE AND INVITED ACADEMIC PRESENTATIONS (*with students)

Jantz, C, Hawkins, TW, and Jantz, PJ. 2019. Assessing Natural Resources for the Appalachian Trail. PA Greenways and Trail Summit. Shippensburg, PA.

Hawkins, TW. 2019. The Impact of Future Climate Variability on the Hydrology of the Delaware River Basin. Stroud Water Research Center. Avondale, PA.

Hawkins, TW. 2019. The Impact of Future Climate Variability on the Hydrology of the Delaware River Basin. Annual Meeting of the American Association of Geographers. Washington, DC.

Hawkins, TW. 2019. The Impact of Future Climate Variability on the Hydrology of the Delaware River Basin. Delaware River Basin Commission. West Trenton, New Jersey.

Hawkins, TW. 2018. The Impact of Future Climate Variability on the Hydrology of the Delaware River Basin. Delaware Watershed Research Conference. Philadelphia, Pennsylvania.

Hawkins, TW. 2018. The Impact of Future Climate Variability on the Hydrology of the Delaware River Basin. Annual Meeting of the American Water Resources Association. Baltimore, Maryland.

*Moyer, AN and TW Hawkins. 2017. River Effects on the Heat Island of a Small Urban Area. Annual Meeting of the American Association of Geographers. Boston, Massachusetts.

*Frick, C and TW Hawkins. 2015. A Spatiotemporal Analysis of Tropical Cyclone Tracks in the Atlantic Basin: 1970-2003. Annual Meeting of the American Association of Geographers. Chicago, Illinois.

Hawkins, TW. 2015. Simulating the Impacts of Projected Climate Change on Streamflow Hydrology for the Chesapeake bay Watershed. Annual Meeting of the American Meteorological Society. Phoenix, Arizona.

Hawkins, TW. 2014. Changing Climate in the South Mountain Region: How a Changing Global Climate is Affecting the Local Landscape. South Mountain Speaker Series. Carlisle, Pennsylvania.

*Park, G and TW Hawkins. 2014. Using Cost-Benefit Analysis and Building Compactness to Determine the most Cost Effective Buildings to Install Green Roofs in Harrisburg, Pennsylvania. Annual Meeting of the Middle States Division of the Association of American Geographers. York, Pennsylvania.

Hawkins TW and IB Hawkins. 2014. Interviewing a Global Warming Skeptic. Cooling the Liberal Arts, Workshop for Teaching about Climate Change. Carlisle, Pennsylvania.

Hawkins TW. 2013. A Hydrologic Model for Assessing the Impacts of Climate Change on the Chesapeake Bay Watershed. Susquehanna River Basin Commission. Harrisburg, Pennsylvania.

*Hawkins TW and AO Braun. 2012. Assessing the Influence of Weather Type and Rural Land Cover on a Small Urban Heat Island. Annual Meeting of the Association of American Geographers. New York City, New York.

*Kubach HK and TW Hawkins. 2012. Weather and Wine Grape Quality: A Comparative Study of Two Adams County, Pennsylvania Vineyards. Annual Meeting of the Association of American Geographers. New York City, New York.

Hawkins TW 2011. Teaching Conservation and Alternative Energy by Example. Annual Meeting of the National Council for Geographic Education. Portland, Oregon.

*Hawkins TW and KL Smith. 2011. Historical and Projected Climate Trends along the Appalachian Trail, United States and the Ramifications for Trail Usage. Annual Meeting of the Association of American Geographers. Seattle, Washington.

*Hawkins TW and LA Holland. 2010. Synoptic and Local Weather Conditions Associated with PM_{2.5} Concentration in Carlisle, Pennsylvania. Joint Meeting of the Pennsylvania Geographical Society and Mid-Atlantic Division of the Association of American Geographers. York, Pennsylvania.

Hawkins TW. 2010. A Student-Centered Research Program using Urban Heat Islands. Annual Meeting of the National Council for Geographic Education. Savannah, Georgia.

*Austin, B and TW Hawkins. 2010. Simulating Streamflow and the Impacts of Climate Change on the Savage River, Maryland. Seminar for the Interstate Commission on the Potomac River Basin. Rockville, MD.

*Austin, B and TW Hawkins. 2010. Simulating Streamflow and the Impacts of Climate Change on the Savage River, Maryland. Annual Meeting of the Association of American Geographers. Washington, DC.

- *Pompeii, WC and TW Hawkins. 2010. Assessing Urban Heat Island Mitigation using Green Roofs: A Hardware Scale Modeling Approach. Annual Meeting of the Association of American Geographers. Washington, DC.
- Hawkins, TW. 2010. Hydroclimatic and Agricultural Trends in the Eastern United States. Annual Meeting of the Association of American Geographers. Washington, DC.
- *Hawkins TW and L Rundall. 2009. Weather Influences on Carlisle's Air Quality. Central Pennsylvania Clean Air Board Community Meeting. Carlisle, PA.
- *Hawkins TW and K Shuren. 2009. Climate Trends Along the Appalachian Trail, United States and the Potential Effects on Thru-Hiking. Annual Meeting of the Middle States Division of the Association of American Geographers. New Paltz, NY.
- *Beck, AJ and TW Hawkins. 2009. A Comparison of Selected Wisconsin Counties Using an Atmospheric Hazard Vulnerability Assessment. Annual Meeting of the Middle States Division of the Association of American Geographers. New Paltz, NY.
- *Rundall, L and TW Hawkins. 2009. A Meteorological Analysis of Particulate Matter Pollution for Carlisle, PA. Annual Meeting of the Middle States Division of the Association of American Geographers. New Paltz, NY.
- *Hawkins TW, KJ Kiphart, and JS Smith. 2009. Teaching Meteorology in Two and Three Dimensions. Annual Meeting of the National Council for Geographic Education. San Juan, Puerto Rico.
- Hawkins, TW. 2009. A Meteorologically-Based Raptor Migration Forecast Model for Hawk Mountain Sanctuary. Seminar at Hawk Mountain Sanctuary, Kempton, Pennsylvania.
- Hawkins, TW. 2009. Hydroclimatic Change on the Salt and Verde Watersheds, Arizona. American Water Resources Spring Specialty Conference: Climate Change and Water Resources, Anchorage, Alaska.
- Ellis, AW, TW Hawkins, and GM Garfin. 2009. Drought Index Verification in the Colorado River Basin, USA. Annual Meeting of the Association of American Geographers. Las Vegas, Nevada.
- Hawkins, TW. 2009. Relationships between Hydroclimate and Land Use-Land Cover in the United States. Annual Meeting of the Association of American Geographers. Las Vegas, Nevada.
- *Hawkins, TW and D Doyle. 2008. Assessing a Small Summer Urban Heat Island in Rural South Central Pennsylvania. Annual Meeting of the Middle States Division of the Association of American Geographers. Lancaster, Pennsylvania.

*Kiphart, K and Hawkins, TW. 2008. Teaching Upper Atmospheric Meteorology in Two and Three Dimensions. Annual Meeting of the Middle States Division of the Association of American Geographers. Lancaster, Pennsylvania.

Hawkins, TW. 2008. Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions. Department of Geography and Earth Science Seminar Series. Shippensburg, Pennsylvania.

Hawkins, TW. 2008. Hydroclimatic Trends for the Salt and Verde Watersheds, Arizona. Annual Meeting of the Association of American Geographers. Boston, Massachusetts.

Hawkins, TW. 2007. Assessing the Dependency Streamflow on Antecedent Soil Moisture on the Salt and Verde Watersheds, Arizona. Annual Meeting of the American Water Resources Association. Albuquerque, New Mexico.

*Hawkins, TW and KK Goetz. 2007. Seasonal and Historical Evaporation Estimates for a Small Reservoir in South Central Pennsylvania. Pennsylvania Geographical Society Annual Meeting. Johnstown, Pennsylvania.

Hawkins, TW. 2007. Assessing the Importance of Antecedent Soil Moisture Conditions for Predicting Reservoir Inflows on the Colorado River Basin. Annual Meeting of the Association of American Geographers. San Francisco, California.

Hawkins, TW. 2006. A Case Study of Hydrologic Applications used for Judicial Proceedings. Pennsylvania Geographical Society Annual Meeting. Salisbury, Maryland.

Rengert, AC, T Baerwald, D Ives Dewey, TW Hawkins, J Pipkin, and G Pope. 2006. Issues for New Faculty: An Open Dialogue between Some Who Are and Some Who've Been. Panel Discussion. Annual Meeting of the Middle States Division of the Association of American Geographers. New Brunswick, New Jersey.

Hawkins, TW. 2006. A 110 Year Hydroclimatology of the Colorado River Basin by Means of a Modified, Distributed, Climatic Water Budget. 102nd Annual Meeting of the Association of American Geographers. Chicago, Illinois.

Hawkins, TW. 2005. Parameterization of the Snowmelt Runoff Model during Drought Conditions. Pennsylvania Geographical Society Annual Meeting. Greensburg, Pennsylvania.

Hawkins, TW. 2005. Modeling the Energy Budget of an Arid, Subtropical Snowpack in Arizona. 101st Annual Meeting of the Association of American Geographers. Denver, Colorado.

Hawkins, TW. 2004. Snowmelt Modeling and Water Resources in Arid Climates. Pennsylvania Geographical Society Annual Meeting. New Cumberland, Pennsylvania.

- Oberle, A, W Bigler, and TW Hawkins. 2004. The Role of a Ph.D. Field Exam in Assessing and Developing Geographic Skills and Preparing Graduate Students for Academic Careers. Association of Pacific Coast Geographers Annual Meeting. San Luis Obispo, California.
- Hawkins, TW, AJ Brazel, WL Stefanov, W Bigler, and EM Saffell. 2004. The Role of Rural Variability in Urban Heat Island Determination for Phoenix, Arizona. 100th Annual Meeting of the Association of American Geographers. Philadelphia, Pennsylvania.
- Hawkins, TW. 2003. Water Resources and Snow Cover in Arizona. 2003 Arizona State University, Department of Geography Annual Banquet. Tempe, Arizona.
- Hawkins, TW. 2003. Pilot Study: A Gridded Forecast Model for Predicting Valley-Wide Air Temperatures for Phoenix, AZ. 99th Annual Meeting of the Association of American Geographers. New Orleans, Louisiana.
- Ellis, AW and TW Hawkins. 2003. Climatic Considerations in Forecasting the North American Monsoon. 99th Annual Meeting of the Association of American Geographers. New Orleans, Louisiana.
- Ellis, AW and TW Hawkins. 2002. Climatic Considerations in Seasonal Forecasting of the North American Monsoon. Summer Convective Workshop. National Weather Service-Salt River Project. Phoenix, Arizona.
- Hawkins, TW. 2002. The Role of Snow Cover in a North American Monsoon Forecast Algorithm. 98th Annual Meeting of the Association of American Geographers. Los Angeles, California.
- Hawkins, TW. 2002. Geostatistical Analysis of Arizona Summertime Precipitation. 98th Annual Meeting of the Arizona Nevada Academy of Sciences. Glendale, Arizona.
- Hawkins, TW and AW Ellis. 2001. North American Snow Cover: A Potential Seasonal Forecast Tool for the North American Monsoon. 97th Annual Meeting of the Association of American Geographers. New York, New York.
- Hawkins, TW and AW Ellis. 2001. North American Snow Cover: A Potential Seasonal Forecast Tool for the North American Monsoon. Arizona State University Graduates in Earth and Life Sciences Symposium. Tempe, Arizona.
- Hawkins, TW and AW Ellis. 2000. North American Snow Cover: A Potential Forecast Tool for the North American Monsoon. Second Southwest Weather Symposium. Tucson, Arizona.
- Ellis, AW and TW Hawkins. 2000. Associations between North American Snow Cover and Summer Monsoon Intensity. 96th Annual Meeting of the Association of American Geographers. Pittsburgh, Pennsylvania.

RESEARCH GRANTS AND FUNDED PROJECTS (*with students)

Jantz, CA TW Hawkins, P Jantz. 2018. Natural Resource Condition Assessment for the Appalachian National Scenic Trail. Funded by: National Park Service under Chesapeake Watershed Cooperative Ecosystem Studies Unit. 3 years. \$150,000.

Jantz, CA TW Hawkins, CJ Woltemade, P Jantz, SA Drzyzga. 2017. How Will Forest Ecosystems and Hydrologic Processes in the Delaware River Basin be Affected by Climate Change and Land Cover Change?. Funded by: Delaware Watershed Research Fund. 3 years. \$486,000.

*Frick, C and TW Hawkins. 2015. A Spatiotemporal Analysis of Tropical Cyclone Tracks in the Atlantic Basin: 1970-2103. Funded by: Shippensburg University Institute for Public Service. One time cost. \$1000.

*Seils, K and TW Hawkins. 2014. Establishing a Quality Value of Sky Glow for Shippensburg, Pennsylvania. Funded by: Shippensburg University Institute for Public Service. One time cost. \$319.

*Moyer, AN and TW Hawkins. 2014. Assessing the Effects of a River on a Small Urban Heat Island in Central Pennsylvania. Funded by: Shippensburg University Institute for Public Service. One time cost. \$541.

*Park, G and TW Hawkins. 2014. Using Cost-Benefit Analysis and Building Compactness to Determine the most Cost Effective Buildings to Install Green Roofs in Harrisburg, Pennsylvania. Funded by: Shippensburg University Institute for Public Service. One time cost. \$996.

*Kubach, HK and TW Hawkins. 2011. Weather and Wine Grape Quality: A Comparative Study of Two Adams County, PA Vineyards. Funded by: Shippensburg University Institute for Public Service. One time cost. \$500.

*Austin, WC and TW Hawkins. 2009. Simulating Streamflow and the Impacts of Climate Change on the Savage River, Maryland. Funded by: Shippensburg University Institute for Public Service. One time cost. \$428.

*Pompeii, B and TW Hawkins. 2009. Assessing Urban Heat Island Mitigation using Green Roofs: A Hardware Scale Modeling Approach. Funded by: Shippensburg University Institute for Public Service. One time cost. \$428.

*Rundall, L and TW Hawkins. 2009. A Meteorological Analysis of Particulate Matter Pollution for Carlisle, PA. Funded by: Shippensburg University Institute for Public Service. One time cost. \$514.

- *Beck, AJ and TW Hawkins. 2009. A Comparison of Selected Wisconsin Counties Using an Atmospheric Hazard vulnerability Assessment. Funded by: Shippensburg University Institute for Public Service. One time cost. \$1083.
- Hawkins, TW. 2009. A Synoptic Climatology for PM 2.5 Data for Carlisle, Pennsylvania: Phase II. Funded by: Shippensburg University Center for Land Use. 3 months. \$4,750.
- *Pompeii, WC and TW Hawkins. 2009. Assessing Urban Heat Island Mitigation using Green Roofs: A Hardware Scale Modeling Approach. Funded by: Shippensburg University Institute for Public Service. One time cost. \$500.
- Hawkins, TW. 2009. A Synoptic Climatology for PM 2.5 Data for Carlisle, Pennsylvania. Funded by: Shippensburg University Center for Land Use. 3 months. \$5,050.
- *Kiphart, KJ and TW Hawkins. 2008. Teaching Upper Atmospheric Meteorology in Two and Three Dimensions. Funded by: Shippensburg University Institute for Public Service. One time cost. \$300.
- Hawkins, TW and AW Ellis. 2007. Hydroclimatic History for the Salt and Verde Watershed. Funded by: Salt River Project. 1 year. \$16,417.
- Hawkins, TW. 2007. The Impact of Land Use Change on Climate Change in the United States. Funded by: Shippensburg University Research and Scholarship Program. 1 year. \$14,460.
- Hawkins, TW. 2006. Climate Change and Land Use Change in the Cumberland Valley, Pennsylvania. Funded by: Faculty Professional Development Council of the Pennsylvania State System of Higher Education. 1 year. \$5,290.
- Hawkins, TW. 2006. Hydrologic Report for the June 5 and June 7, 2003 Flood Events at the Wollaston Property, 35 Field View Court, Greencastle, Franklin County, Pennsylvania. *Expert document prepared for Franklin County Court of Common Pleas / Civil Action No. 2003-2584.* Funded by: O'Connell and Silvis, LLP. 37 hours. \$5500.
- *Hawkins, TW, K Goetz, and D Klinger. 2006. Simulating Evaporation off Small Drinking Supply Reservoirs. Funded by: Miklausen-Likar Science Research Fund, Shippensburg University Foundation. One time cost. \$450.
- Hawkins, TW and AW Ellis. 2005. Simulating Soil Moisture Content on the Salt River Project Basins: Phase I. Funded by: Salt River Project. 1 year. \$21,152.
- Hawkins, TW and AW Ellis. 2003. Evaluating and Modeling Snow Pack Evolution in Arizona. Funded by: Salt River Project. 8 months. \$19,743.

Hawkins, TW. 2003. Factors Controlling Snow Pack Evolution in Arizona. Funded by: Melvin G. Marcus Scholarship, Department of Geography, Arizona State University. 6 months. \$800.

Hawkins, TW. 2002. Factors Controlling Snow Pack Evolution in Arizona. Funded by: Salt River Project. One time cost. \$1045.

I was actively involved in the following proposals as a graduate assistant.

Ellis, AW. 2002. Operationalization of the Algorithms for Seasonal Monsoon Intensity Prediction (ASMIP). Funded by: Salt River Project. 2.5 months. \$19,227.

Ellis, AW. 2001. Development of the Algorithms for Seasonal Monsoon Intensity Predictions (ASMIP) package for Utilities Planning and Management. Funded by: Salt River Project. 12 months. \$40,268.

Ellis, AW. 2000. A Potential Forecasting Tool for the Arizona Monsoon: The North American Snow Cover-Monsoon Teleconnection. Funded by: Salt River Project. 8 months. \$18,523.

OTHER GRANTS

Hawkins, TW. 2019. Center for Faculty Excellence in Scholarship and Teaching Travel Grant. Funded by: Shippensburg University. One time cost. \$725.

Hawkins, TW. 2017. Center for Faculty Excellence in Scholarship and Teaching Travel Grant. Funded by: Shippensburg University. One time cost. \$1000.

Hawkins, TW. 2015. Center for Faculty Excellence in Scholarship and Teaching Travel Grant. Funded by: Shippensburg University. One time cost. \$1400.

Hawkins, TW. 2013. Center for Faculty Excellence in Scholarship and Teaching Faculty Training and Continued Education Grant. Funded by: Shippensburg University. One time cost. \$1056.

Hawkins, TW. 2012. Center for Faculty Excellence in Scholarship and Teaching Faculty Training and Continued Education Grant. Funded by: Shippensburg University. One time cost. \$840.

Hawkins, TW. 2012. Center for Faculty Excellence in Scholarship and Teaching Faculty Training and Continued Education Grant. Funded by: Shippensburg University. One time cost. \$776.

Hawkins, TW. 2011. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$900.

Hawkins, TW. 2010. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$900.

Hawkins, TW. 2010. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$500.

Hawkins, TW. 2009. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$1000.

Hawkins, TW. 2009. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$500.

Hawkins, TW. 2009. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$1000.

Hawkins, TW. 2008. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$500.

Hawkins, TW. 2007. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$1000.

Hawkins, TW. 2007. Dean's Office Travel Grant. Funded by: Shippensburg University. One
time cost. \$392.

Hawkins, TW. 2007. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$1000.

Hawkins, TW. 2006. Dean's Office Travel Grant. Funded by: Shippensburg University. One
time cost. \$264.

Hawkins, TW. 2006. Center for Faculty Excellence in Scholarship and Teaching Faculty
Training and Continued Education Grant. Funded by: Shippensburg University. One
time cost. \$293.

Hawkins, TW. 2006. Center for Faculty Excellence in Scholarship and Teaching Faculty
Training and Continued Education Grant. Funded by: Shippensburg University. One
time cost. \$335.

Hawkins, TW. 2005. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$1000.

Hawkins, TW. 2005. Dean's Office Travel Grant. Funded by: Shippensburg University. One
time cost. \$209.

Hawkins, TW. 2004. Center for Faculty Excellence in Scholarship and Teaching Travel Grant.
Funded by: Shippensburg University. One time cost. \$900.

COURSES TAUGHT

Shippensburg University

- ESS 108: Conservation of Natural Resources; 40 students
- ESS 108 online: Introduction to Environmental Sustainability (formerly Conservation of Natural Resources); 25 students
- ESS 111: Introduction to the Atmosphere; 40 students
- ESS 111/HON 142: Honors Introduction to the Atmosphere; 20 students
- ESS 355: Meteorology; 30 students
- ESS 404: Applied Meteorology and Climatology; 30 students
- GEO 226: Hydrology; 35 students
- GEO 503: Fundamentals of Geoenvironmental Research (grad): 20 students
- GEO 522: Geoenvironmental Hydrology (graduate): 12 students

Arizona State University

- GPH 314: Global Change; 100 students
- GPH 111: Introduction to Physical Geography; 160 students
- GPH 215 Laboratory: Introduction to Climatology; 20 students
- GPH 213 Laboratory: Introduction to Meteorology; 35 students
- GPH 111 Laboratory: Introduction to Physical Geography; 35 students

GRADUATE THESES

- Kurtis Walker (Advisor). 2018. Impact of Larger and More Severe Wildfires on PM_{2.5} Concentrations in Western Oregon (2005-2015).
- Joe Gallella (Committee Member). 2016. Slackwater Sedimentation at Laughlin Milldam, Newville, Pennsylvania.
- Ashley Moyer (Advisor). 2016. Assessing the Impact of the Susquehanna River on Harrisburg's Urban Heat Island.
- Gon Park (Advisor). 2014. Using Cost-Benefit Analysis and Building Compactness to Determine the most Cost Effective Buildings to Install Green Roofs in Harrisburg, Pennsylvania
- Sara Grise (Biology) (Committee Member). 2013. The Effect of Projected Climate Change on Invasive Species in Pennsylvania.

Bill Pompeii (Advisor). Spring 2010. Assessing Urban Heat Island Mitigation using Green Roofs: A Hardware Scale Modeling Approach.

A.J. Beck (Advisor). Fall 2009. A Comparison of Selected Wisconsin Counties Using an Atmospheric Hazard Vulnerability Assessment.

Gary Lasako (Committee Member). Fall 2009. Investigating the Influence of Geology on Carbonate Spring Response in the Cumberland Valley, Pennsylvania.

Jeff Humpton (Committee Member). Fall 2009. Monitoring and Evaluation of a Small Urban Stream Restoration Project in Harrisburg, Pennsylvania.

Adrienne Smith (Committee member). Spring 2007. Air Quality and Cardiovascular Mortality in Pennsylvania.

Melissa Mimna (Committee member). Spring 2007. Modeling and Field Monitoring the Effects of Impervious Surfaces on Maximum Stormwater Runoff Temperatures: Investigation of the Shippensburg University of Pennsylvania Campus.

Hannah Kubach (Advisor). Did not finish for personal reasons. Microclimatology and Wine Grape Quality in Adams County Pennsylvania.

Amy Lee (Advisor). Did not finish for personal reasons. Greenhouse Gas Inventory for Shippensburg University.

GRADUATE SEMESTER RESEARCH PROJECTS

Agni Mitra. 2020. Hydroclimatic Analysis of Wet and Dry Periods for the Delaware River Basin associated with Projected 21st Century Climate Change.

Cody Frick. 2015. North Atlantic Hurricane Track Climatology.

Michael Griesemer. 2014. Energy Audit of Rife Alumnae House.

Kevin Eaton. 2014. Assessing the Microclimate of Seth Grove Stadium.

Kate Shuren. Spring 2011. Assessing Climate Change on the Susquehanna River Basin.

Brad Austin. Spring 2010. Simulating Streamflow and the Effects of Climate Change on the Savage River, Maryland.

Olivia Braun. Spring 2010. The Impact of Agricultural Growth on a Small Rural Urban Heat Island.

Danielle Doyle. Fall 2007. The Urban Heat Island of a Small City: The Case of Shippensburg, Pennsylvania.

Sharvari Patwardhan. Fall 2007. Hurricane Preparedness and the Medical Community.

Tara Gettig. Spring 2007. Climatological Considerations of Raptor Migration Patterns.

John Gustkey. Spring 2005. Computer Programming of Water Budget Algorithms.

UNDERGRADUATE SEMESTER RESEARCH PROJECTS

Braden Brunning. 2016. Using Thermal IR Imagery to Assess Temperature Differences Associated with Different Land Uses.

Carl Seils. 2015. Assessing Light Pollution around Shippensburg.

Sam Gau. Spring 2014. Thermal Imaging of Shippensburg University.

Hugh Lewis. Spring 2011. Assessment of Spring Flow Monitoring for Hornbaker Spring and Wetland.

Lisa Rundall. Fall 2009. Meteorological Conditions and Air Quality in Carlisle, PA.

Jim Spatz. Fall 2008. Shippensburg University's Greenhouse Gas Emissions.

Kayla Kiphart. Spring and Fall 2008. Teaching Upper Atmosphere Meteorology in Two and Three Dimensions.

Sarah Stengl. Spring 2008. Climate history and its effects on the growth of Red Oak (*Quercus rubra*) and Pin Oak (*Quercus palustris*) within the Cumberland Valley, Pennsylvania.

Kris Goetz. Fall 2006. Evaporation Rates from Long Pine Reservoir.

Roberta Kline. Fall 2006. Chambersburg's Urban Heat Island.

SERVICE

Departmental

Chair Strategic Planning Committee, Department of Geography and Earth Science, Shippensburg University, May 2020-Present.

Member Curriculum Committee, Department of Geography and Earth Science, Shippensburg University, August 2004-Present.

Faculty Mentor to Russel Hedberg, Department of Geography and Earth Science, Shippensburg University, August 2018-December 2018.

Graduate Program Coordinator, Department of Geography and Earth Science, Shippensburg University, January 2007-December 2016.

Interim Department Chair, Department of Geography and Earth Science, Shippensburg University, August 2011-December 2011.

Advisor Gamma Theta Upsilon Honor Society Faculty, Department of Geography and Earth Science, Shippensburg University, August 2005-August 2011.

Faculty Mentor to Jennifer Granger, Department of Geography and Earth Science, Shippensburg University, August 2009-December 2009.

Faculty Mentor to Joseph Zume, Department of Geography and Earth Science, Shippensburg University, August 2007-May 2008.

Search Committee Member, Department of Geography and Earth Science, Shippensburg University, August 2006-January 2007 (Joseph Zume).

Search Committee Member, Department of Geography and Earth Science, Shippensburg University, August 2006-January 2007 (Mary Lemke).

Search Committee Member, Department of Geography and Earth Science, Shippensburg University, October 2005-February 2006 (Sean Cornell).

Graduate Student Representative, Department of Geography, Arizona State University, August 2002-September 2003.

Elected by peers to be liaison between graduate students and faculty.

Search Committee Member, Department of Geography, Arizona State University, September 2002-April 2003.

Graduate student member of search committee to hire surface water specialist.

Brown Bag Series Coordinator, Department of Geography, Arizona State University, May 2001-September 2002.

Organized speakers for lunchtime presentations.

Teaching Assistant Trainer, Department of Geography, Arizona State University, August 2000.

Organized and presented introduction for incoming teaching assistants.

University

Member PASSHE Sustainability Development Task Force, Shippensburg University, August 2020-Present.

Member Distance Education Subcommittee, Shippensburg University, August 2018-Present.

Member Environmental Steering Committee, Shippensburg University, August 2006- Present.

Member Organizational Development and Leadership (ODL) Advisory Committee, August 2010-present.

Member Dean's Advisory Council for Graduate School, Shippensburg University, August 2007-Present.

Member University Curriculum Committee, Shippensburg University, August 2015 - May 2017.

Member Search Committee for Associate Dean (STEM) of the College of Arts and Sciences, Shippensburg University, November 2017 - May 2018.

Member Graduate Council, Shippensburg University, August 2007- December 2016.

Member Graduate Council Graduate Assistant Allocation Subcommittee, August 2009-May 2011.

Secretary University Curriculum Committee, Shippensburg University, August 2010 - May 2011.

Member University Curriculum Committee, Shippensburg University, August 2009 - May 2011.

Co-Chair of Environmental Steering Committee, Shippensburg University, August 2007- May 2011.

Representative to APSCUF Representative Council, Shippensburg University, August 2006 - May 2011.

Member Graduate Research Advisory Committee, August 2009- May 2011.

Presenter at Shippensburg University Academic Day First-Year Orientation, August 2010.

Chair of Graduate Council Website Advisory Subcommittee, August 2008-May 2010.

Member Graduate Council Graduation Speaker Selection Subcommittee, August 2008-May 2009.

Panelist for climate change discussion sponsored by Honors College, Shippensburg University, April 2008.

Panelist for climate change discussion sponsored Public Relations Student Society of America (PRSSA), Shippensburg University, April 2008.

Mentor for Thurgood Marshall Mentor Program, Shippensburg University, August 2006- May 2007.

Academic Day First Year Student Discussion Facilitator, Shippensburg University, August 2005.

Discipline

Regional Councilor and National Executive Committee Member Gamma Theta Upsilon, International Geography Honor Society, January 2011-Present.

Editorial Board, *Geographical Bulletin*, January 2011-Present.

Weather Observer, National Climatic Data Center's Cooperative Observers Network, August 2004-Present.

Referee, *Hydrological Processes*, 2019.

External Reviewer, University of Northern Iowa Department of Geography. March 2015.

University Representative to Pennsylvania Environmental Resource Consortium, Shippensburg University, August 2005- October 2015. Treasurer August 2011- October 2015.

Reviewer, *Weather Analysis and Forecasting* textbook, 2015.

Reviewer, *Environmental Science* textbook, 2015.

Referee, *Journal of Applied Meteorology and Climatology*, 2015.

Referee, *Middle States Geographer*, 2015, 2018.

Referee, Pennsylvania State System of Higher Education FPDC Grant, 2009, 2010, 2011, 2015.

Referee, *International Journal of Climate*, 2004, 2013.

Vice President Central Pennsylvania Clean Air Board, January 2010 – August 2011.

Executive Board Member Central Pennsylvania Clean Air Board, August 2009 - August 2011.

Executive Board Member, Pennsylvania Geographical Society, August 2005-August 2011.

Membership Committee, Pennsylvania Geographical Society, August 2005-August 2011.

Panelist on Greenhouse Gas Inventories, Pennsylvania Environmental Research Consortium Climate Change and Energy Conference. Harrisburg, PA, 2011.

Session Organizer, Association of American Geographer's Annual Meeting. Session Titles: Hydroclimate. 2008, 2009, 2010.

Referee, Geographical Bulletin, 2010, 2011.

Referee, Meteorology and Atmospheric Physics, 2010.

Referee, Climate Research, 2009.

External Reviewer, SUNY Geneseo Department of Geography. March 2009.

Referee, Proteus (3 articles), 2009.

Referee, GeoJournal, 2007.

Referee, Weather and Climate Lab Manual for Pearson Education, 2007.

Referee, Pennsylvania State System of Higher Education FPDC Grant, 2007.

Referee, Pennsylvania State System of Higher Education FPDC Grant, 2007.

Session Organizer, Association of American Geographer's Annual Meeting. Session Titles: Hydroclimate I, II, II, IV. 2007

Referee, National Oceanic and Atmospheric Administration (NOAA)'s Climate Prediction Program for the Americas (CPPA) Funding Competition, 2006.

Referee, Biometeorology, 2006.

Referee, Geophysical Research Letters, 2006.

Referee, National Science Foundation, Hydrologic Sciences Division Funding Competition, 2005.

Referee, National Oceanic and Atmospheric Administration (NOAA)'s Climate Prediction Program for the Americas (CPPA) Funding Competition, 2005.

Session Chair, Pennsylvania Geographical Society Annual Meeting. Session Title: Parameterization Procedures in the Atmosphere. 2005

Panel Organizer, Association of American Geographer's 101st Annual Meeting. Panel Title: The Role of A field Exam in Geographic Education. 2005

Referee, Journal of Climate, 2003.

Treasurer, Central Arizona-Phoenix Chapter of the American Meteorological Society, May 2002-2004.

Community

Guest Speaker, Carlisle, PA Master Watershed Steward Training, April 2020.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Shippensburg, PA Shippensburg University Center for Land Use and Sustainability Climate Series, October 2019.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Shippensburg, PA Grace B Luhrs Elementary School, October 2017.
Title: Air Pressure.

Guest Speaker, Harrisburg, PA Infinity Charter School, January 2017.
Title: Weather, Climate, and People.

Guest Speaker, Mercersburg, PA Mercersburg Academy Leadership Symposium, March 2015.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Co-coordinator for Grace B. Luhrs Elementary School Overnight Environmental Education Camp (Camp GBLUES), Shippensburg PA, 2014-2018.

Guest Speaker, Norfolk, VA St. Andrews Church, March 2010.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Host Clean Air Board of Central Pennsylvania community meeting. April 2010.

Guest Speaker, Chambersburg, PA Mennohaven Retirement Home, March 2010.
Title: Climate Change and Energy: Policies, Technology, and Economics.

Guest Speaker, Clean Air Board of Central Pennsylvania, October 2010.
Title: Weather Influences on Carlisle's Air Quality.

Panelist, Shippensburg, PA CBS 21 Weather Summit with Tom Russell, March 2009, 2010.

Guest Speaker, Chambersburg, PA Mennohaven Retirement Home, March 2009.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Shippensburg, PA St. Andrews Episcopal Church, March 2008.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Shippensburg, PA Chapter of Rotary Club, February 2008.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Norfolk, VA Church of the Ascension, January 2008.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Dickinson, PA Presbyterian Church, December 2007.
Title: Climate Change: Current Knowledge, Anticipated Impacts, Practical Solutions.

Guest Speaker, Shippensburg, PA Chapter of Lion's Club, April 2006.
Title: Water Resources in the Cumberland Valley, Pennsylvania.

National Geographic Geography Bee Volunteer, Department of Geography and Earth Science,
Shippensburg University, April 2006.
Administered questions and ran sessions at state bee.

See ASU Volunteer, Department of Geography, Arizona State University, March 2003.
University holds event for local children to experience ASU departments.

Guest Speaker, Tempe Preparatory Academy, April 2000, 2001, 2002.
Spoke to eighth grade Earth science classes about the world's monsoons.

Earth Science Day Volunteer, Department of Geography, Arizona State University, October
1999 and 2001.
University holds event for local children.

National Geographic Geography Bee Volunteer, Department of Geography, Arizona State
University, April 2000, 2002, and 2003.
Administered questions and ran sessions at state bee.

HONORS AND AWARDS

Fulbright Scholar Award to Barbados, The United States Department of State's Bureau of
Educational and Cultural Affairs. August 2020

Thomas Feeney Service Award, Department of Geography and Earth Science, Shippensburg
University, May 2016

Jack Benhart Research Award, Department of Geography and Earth Science, Shippensburg
University, May 2015

Technology and Library Services Award for Innovative Use of Technology, Shippensburg
University, May 2015

Jack Benhart Research Award, Department of Geography and Earth Science, Shippensburg
University, May 2010

Thomas Feeney Service Award, Department of Geography and Earth Science, Shippensburg University, May 2007

Jack Benhart Research Award, Department of Geography and Earth Science, Shippensburg University, May 2005

Climate Specialty Group student paper award 2nd place, Association of American Geographers, March 2003

Dean's Council Scholarship, Arizona State University, April 2002

University Graduate Scholarship, Arizona State University, August 2001-May 2004

Climate Specialty Group student paper award 3rd place, Association of American Geographers, February 2001

Regents Graduate Academic Scholarship, August 1999-May 2001

Weather Forecasting Hall of Fame, Arizona State University, December 1999

Phi Beta Kappa, Colgate University, Elected January 1998

Honors in Geography, Colgate University, May 1998

Charles A. Dana Scholar, Colgate University, May 1997 and May 1998

Alumnae Memorial Scholar, Colgate University, August 1994-May 1998

Dean's Award for Academic Excellence, Colgate University, August 1994-May 1998

Konosioni Society, Colgate University, May 1997

George Cobb Fellowship Nominee, Colgate University, September 1997

Affiliate Scholarship, Sea Education Association, May 1997

Patriot League Division I Athletic/Academic Honor Roll, Colgate University, December 1994, 1995, 1996, and 1997

Phi Eta Sigma, Colgate University, May 1995

Haskell-Schiff Memorial Chemistry Prize, Colgate University, May 1995

PROFESSIONAL DEVELOPMENT

Quality Matters 7 Workshop Series: Teaching Online Certificate. Shippensburg University, November 5, 2020. National program on best practices for online education.

Delaware River Watershed Forum. Blue Bell, PA, 2016.

Pennsylvania Environmental Research Consortium Fall Conference: Engaging Sustainability. State College, PA, 2014.

Unidata Integrated Data Viewer (IDV) Workshop. Boulder, CO, 2013.

Unidata Users Workshop. Boulder, CO, 2012.

Chesapeake Modeling Symposium. Annapolis, MD, 2012.

Pennsylvania Environmental Research Consortium Fall Conference: Sustainability Strategies for Hard Economic Times. State College, PA, 2011.

The Sustainable Energy Fund Alternative Energy Conference. Center Valley, PA, 2011.

Pennsylvania Environmental Research Consortium Climate Change and Energy Conference.
Harrisburg, PA, 2011.

Quality Matters Workshop: Improving your Online and Blended Course. Shippensburg
University, November 24, 2008. National program on best practices for online education.

Quality Matters Workshop: Improving your Online and Blended Course. Shippensburg
University, November 13, 2008. National program on best practices for online education.

Advising Workshop: Advising for Scheduling. Shippensburg University, September 23, 2008.

Quality Matters Workshop. Shippensburg University, September 17, 2008. National program on
best practices for online education.

Advising Workshop: General Education Advising. Shippensburg University, September 9, 2008.

Teaching with Blackboard online course, Shippensburg University, November-December, 2006.
Five week online course designed to enhance online instruction.

The Geography Faculty Development Alliance, Workshop for Early Career College and
University Faculty Teaching, University of Colorado, Boulder, CO, June 17-24, 2006.
NSF funded workshop to prepare early career faculty

Teaching Team, Shippensburg University, August 2004-May 2006
Monthly meeting with team members to discuss teaching strategies

On the Cutting Edge, Early Career Faculty Workshop: Teaching, Research, and Managing your
Career, College of William and Mary, Williamsburg, VA, June 8-13, 2005.
NSF funded workshop to prepare early career faculty

Preparing Future Faculty, Arizona State University, August 2002-May 2003
NSF and Pew Charitable Trust funded program to prepare doctoral students for careers in
higher education

71st Western Snow Conference. Scottsdale, AZ. April 21-25, 2003

First International NCCR Climate Summer School, 2002 (invited but declined to attend)

PROFESSIONAL MEMBERSHIPS

American Association of Geographers
American Meteorological Society
American Geophysical Union
American Water Resources Association

Last updated: January 21, 2021