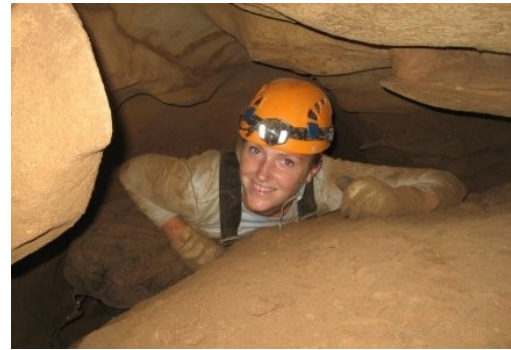


Lee Anne Bledsoe

Curriculum Vitae

Western Kentucky University
Crawford Hydrology Laboratory
1906 College Heights Blvd.
#31066 Bowling Green, KY
42101-1006 Voice: 270-745-9224
Fax: 270-745-6410
Email: lee.bledsoe@wku.edu



RESEARCH INTERESTS

Karst Hydrology, Karst Geology, Water Resources, Environmental and Public Health, Applied Science

EDUCATION

MS, Summa Cum Laude, Geoscience, Western Kentucky University, Bowling Green, KY, 2015
BA, Magna Cum Laude, Environmental Science, Tusculum College, Greeneville, TN, 2001

RESEARCH EXPERIENCE

Research Hydrologist

Crawford Hydrology Laboratory, Western Kentucky University, Bowling Green, KY
May 2010-Present

- Responsible for management of the Crawford Hydrology Laboratory, as well as quality and consistency in all laboratory and field work, including data collection, recording, reporting, management, and project consultation.

Environmental Research Associate

Hoffman Environmental Research Institute, Western Kentucky University, Bowling Green, KY
January 2008-May 2010

- Technician, researcher, and outreach coordinator for collaborative project with the United States Department of Agriculture on agricultural impacts in karst systems and other karst hydrology research.

Senior Health Environmentalist, Registered Sanitarian

Barren River District Health Department, Glasgow, KY
March 2006-October 2008

- Responsible for enforcing Kentucky State Regulations for public facilities, restaurants, and onsite septic installation through inspections and surveys.

Biological Science Technician, GS-0404-06

Glen Canyon National Recreation Area, Bullfrog, UT
May 2005-September 2005

- Served as Lab Supervisor at a Utah State Certified Water Quality Laboratory at Lake Powell, Utah.

Biological Science Technician, GS-0404-05

Biscayne National Park, Homestead, FL

January 2004 - May 2005

- Served as lead field and laboratory technician in the implementation of the Biscayne Bay Hydrodynamic Data Collection effort, a project within the Comprehensive Everglades Restoration Plan.

Aquatic Ecology Research Technician

Joseph W. Jones Ecological Research Center, Newton, GA

May 2002 – December 2003

- Responsible for insuring quality and consistency in all laboratory and field work, including data collection and recording, for a variety of aquatic biology projects.

CONFERENCE PRESENTATIONS

- 2015 **Bledsoe, Lee, C. Groves, K. Henn, and J. Rowe.** *An Investigation of Groundwater Flow at Patoka Dam, Indiana to Support Dam Safety Risk Assessment*, National Cave and Karst Management Symposim, Cave City, KY
- 2015 **Bledsoe, Lee, C. Groves, K. Henn, and J. Rowe.** *A Hydrogeologic Investigation at Patoka Dam, Indiana to Support Dam Safety Risk Assessment*, United States Society on Dams Annual Meeting, Louisville, KY
- 2015 **Bledsoe, Lee, C. Groves, K. Henn, and J. Rowe.** *A Hydrogeologic Investigation at Patoka Dam, Indiana to Support Dam Safety Risk Assessment*, Western Kentucky University Student Research Conference.
- 2014 **Bledsoe, Lee, C. Groves, K. Henn, and J. Rowe.** *An Investigation of Groundwater Flow in the Vicinity of Patoka Dam, Indiana to Support Dam Safety Risk Assessment*, Kentucky Academy of Science 100th Annual Meeting, Lexington, KY
- 2013 Crawford Hydrology Laboratory Exhibitor, International Congress of Speleology, Brno, Czech Republic
- 2013 Crawford Hydrology Laboratory Exhibitor, 13th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, Carlsbad, New Mexico.
- 2012 Crawford Hydrology Laboratory Exhibitor, Tennessee Water Resources Symposium, Burns, TN
- 2011 Crawford Hydrology Laboratory Exhibitor, Karst Hydrogeology and Ecosystems Conference, Western Kentucky University, Bowling Green, KY
- 2011 Crawford Hydrology Laboratory Exhibitor, Tennessee Water Resources Symposium, Burns, TN
- 2010 **Bledsoe, Lee, C. Groves, and C. Bolster.** *Continuous Field pH Measurement of Karst Groundwater and Accuracy of Derived Carbonate Chemistry Parameters*, Mid-West Groundwater Conference, Columbus, OH
- 2009 Groves, Chris, Y. Daoxian, and **L. Bledsoe.** *The China Environmental Health Project: Training Efforts for Water Resource Development in Southwest China's Karst Regions, Principles and Methods of Karst Resource Management*, Kunming, China
- 2009 *Training, Outreach, and Exploration in the East Mountain Plateau, Mengzi County, Yunnan Province, China*, 15th International Congress of Speleology and the National Speleological Society Convention, Presented for Pat Kambesis, Kerrville, TX

- 2009 **Bledsoe, Lee,** and C. Groves. *Cooperative Chinese and US Efforts to Enhance Karst Water Resources in Southwest China through Education and Training*, 17th Annual Karstological School, Postojna, Slovenia
- 2008 **Bledsoe, Lee.** *Kentucky Onsite Sewage Disposal Program*, Groundwater Monitoring and Tracing Workshop, Chongqing, China
- 2004 **Bledsoe, Lee,** S. Bellmund, et al. *Biscayne Bay Hydrodynamic Data Collection*, Biscayne National Park, First Annual National Conference on Ecosystem Restoration, Orlando, FL

PUBLICATIONS AND PROFESSIONAL REPORTS

- 2015 **Bledsoe, Lee.** *An Investigation of Groundwater Flow at Patoka Dam, Indiana*. Masters Theses & Specialist Projects. Paper 1539.
- 2013 **Bledsoe, Lee** and C. Groves. *Patoka Dam Dye Trace Investigation Report*, prepared for United States Army Corp of Engineers Louisville District, December 2013
- 2013 **Bledsoe, Lee,** C. Groves, and J. Ray. *Fort Campbell Military Reservation Dye Trace Investigation Report*, prepared for EA Engineering, October 2013.
- 2013 **Bledsoe, Lee,** N. Crawford, and C. Groves. *Cedar Hill Wastewater Lagoon Dye Trace Investigation Report*, prepared for Adenus Wastewater Solutions, Tennessee, July 2012.
- 2013 Brahana, Van, D. McCollough, and **L. Bledsoe.** *Results and Summary of the 2012-2013 Dye-Tracing Test to Establish Hydrologic Connection Between the Proposed Expansion Area of the Eco Vista Sanitary Landfill and Potential Monitoring Wells, Piezometers, Springs, and Streams on and Contiguous to the Site, Near Tontitown, Arkansas*. Prepared for Chimney Rock Consulting, Maumelle, Arkansas, June 2013.
- 2012 **Bledsoe, Lee,** C. Groves, and J. Ray. *Phase II EW Brown Dye Trace Investigation Report*, prepared for AMEC, Inc., September 2012.
- 2012 **Bledsoe, Lee,** N. Crawford, C. Groves, and J. Ray. *Benjamin Crest Subdivision Dye Trace Investigation Report*, prepared for City of Cleveland, Tennessee, July 2012.
- 2012 **Bledsoe, Lee,** C. Groves, and J. Ray. *Fort Knox Military Reservation Dye Trace Investigation Report*, prepared for EA Engineering, June 2012.
- 2011 **Bledsoe, Lee,** C. Groves, and J. Ray. *Phase I EW Brown Dye Trace Investigation Report*, prepared for AMEC, Inc., August 2011.
- 2010 **Bledsoe, Lee,** C. Groves, et al. *Karst Hydrogeologic Inventory for Paoli, Orange County, Indiana*, prepared for August Mack Environmental Inc., July 2010.
- 2010 Baker, Priscilla, J. Ray, **L. Bledsoe,** and C. Groves. *Gladeville Dye Trace Investigation Report*, prepared for Texas Eastern Transmission Corporation, August 2010,
- 2010 **Bledsoe, Lee,** C. Groves, and J. Ray. *Dix Dam Dye Trace Investigation Report*, prepared for ARCADIS, December 2010.
- 2009 Kambesis, Pat, C. Groves, **L. Bledsoe,** et al. *Agriculture and Karst in Kentucky*. Booklet/Informational Pamphlet for the USDA Research Project “Efficient Management and Use of Animal Manure to Protect Human Health and Environmental Quality,” April 2009.
- 2008 Baker, Priscilla, N. Crawford, C. Groves, J. Ray, **L. Bledsoe,** et al. *Dye Trace Investigation of Federal-Mogul Products Inc.*, prepared for Environmental Strategies Consulting, LLC, July 2008.

PROFESSIONAL SERVICE

- 2016 Karst Groundwater Tracing Workshop, Instructor, Carste Ciência e Meio Ambiente, Belo Horizonte, Brazil
- 2015 Dye Tracing 101, Workshop Instructor, National Cave and Karst Symposium, Cave City, Kentucky
- 2015 Midwest States Environmental Consultants Association Webinar Instructor, Dye Tracing Tools and Techniques
- 2014 IAEA Tracer Hydrology Course, Instructor, Water Resource Authority of Jamaica, Kingston, Jamaica
- 2013 Karst Field Studies Program Assistant, Karst Hydrology, Western Kentucky University, Bowling Green, KY
- 2013 Midwest Groundwater Sciences Webinar Instructor, Dye Tracing Tools and Techniques
- 2012 Hydrology Laboratory Training, Southwest University, Chongqing, China
- 2012 Techniques in Karst Groundwater Investigations, Lecturer and Co-coordinator, Karst Field Studies, Western Kentucky University, Bowling Green, KY
- 2011 Karst Hydrogeology and Ecosystems Conference, Co-Coordinator, Bowling Green, KY
- 2009 Cow Pasture, Cornfield, Cave Passage and Your Drinking Water: Discover the Connection, Crumps Cave Field Day, Coordinator, Smiths Grove, KY
- 2009 Understanding Caves, Karst, and Groundwater: Workshop for Educators, Co-Coordinator, Smiths Grove, KY
- 2009 Kentucky State Science Olympiad, Developed and proctored Geography Competition, Western Kentucky University, Bowling Green, KY
- 2009 Principles and Methods of Karst Resource Management, US Coordinator, Kunming, China
- 2009 Karst Field Studies Program Assistant, Karst Hydrology, Western Kentucky University, Bowling Green, KY
- 2008 Groundwater Monitoring and Tracing Workshop, US Coordinator, Chongqing, China
- 2008 Karst Field Studies Program Assistant, Karst Hydrology, Western Kentucky University, Bowling Green, KY

SCHOLARSHIPS AND AWARDS

- 2015 George Huppert Memorial Scholarship
- 2014 Geology Graduate Research Competition Winner, Kentucky Academy of Science Annual Meeting
- 2013 Graduate Studies Research Grant, Western Kentucky University
- 2011 William L. Wilson Memorial Scholarship for Graduate Research, Karst Waters Institute
- 2010 Geography and Geology Departmental Travel Scholarship, Western Kentucky University, Water Resources of the Caribbean Study Abroad
- 2010 Student Government Association Study Abroad Scholarship, Western Kentucky University, Water Resources of the Caribbean Study Abroad
- 2009 EU Marie Curie Scholarship, Registration and travel expenses to present at 17th Annual Karstological School, Postojna, Slovenia
- 1999 Service Learning Award, Excellence in Service Learning Practicum, Tusculum College, Greeneville, TN
- 1997 Tusculum College Academic Scholarship, Tusculum College, Greeneville, TN,

PROFESSIONAL MEMBERSHIPS

Geological Society of America, 2012-present

United States Society of Dams, 2012-2016

National Groundwater Association, 2011-2015

Cave Research Foundation, 2009-present

National Speleological Society, 2008-present

CERTIFICATIONS AND TRAINING

Karst Hydrogeology & Geotechnical Applications, Professional Development Course, Kentucky AIPG, 2016

Cave Survey and Cartography, Karst Field Studies Workshop, Western Kentucky University, June 2014

Campbell Scientific Data logger Programming and Operation Training, Logan, UT, 2010

Vertical Caving Techniques, Hoffman Research Institute, Western Kentucky University, 2008

Registered Sanitarian, Kentucky Department of Public Health and Safety, September 2006

Onsite Septic Installation Certified Inspector, June 2006

Motor Boat Operator Certification, National Park Service, February 2004

Open Water Diver Certification, PADI, July 2004

TECHNICAL SKILLS

- Experience operating Shimadzu Spectrofluorophotometer RF5301 and RF6000 PC.
- Experience programming and operating Campbell Scientific Data loggers CR10X/1000 and a variety of water quality parameter probes.
- Proficient in Microsoft Office Software, S-Plus, Sigma Plot, Peakfit 4.12, HoboWare and ArcGIS 10.0.
- Able to operate and maintain ISCO Automatic Water Samplers, YSI, Hydrolab, and HOBO data sondes.
- Professional and personal field experience in horizontal and vertical caving, cave survey, canoeing, kayaking, and hiking.
- Experience and training in driving off-road, all-terrain, standard transmission, and 15-passenger vehicles.