

**DOUGLAS R. GOUZIE, PhD, PG**  
Department of Geography, Geology, and Planning  
Missouri State University  
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**Current Position:** Professor of Geology, Missouri State University

**Education:** BS, Geology/Geophysics, 1981, Univ. of Kentucky (Honors Program)  
PhD, Geology (Karst Hydrogeochemistry), 1986, Univ. of Kentucky

**Work Experience:**

Missouri State University, Dept. of Geography, Geology, & Planning, Springfield, MO

Professor, Geology – (Aug 2015- ; Asst.- Jan. 2005-July 2009; Assoc.- Aug.2009-July 2015)

\*Primary Faculty member for courses in Speleology and Engineering Geology

\*PI or Co-PI on ~\$750,000 of external funding– included full (2 yr) support of 8 MS students

\*Serve as statewide resource expert for sinkhole issues

Director of Graduate Studies – January 2013 – present

\*Grew College funding from 9 state-funded TA's to 15 TA's

\*Increased applicant numbers for MS Geospatial Sciences program, mentored students

Central Coast Water Quality Control Board, Watershed Assessment, San Luis Obispo, CA

Associate Engineering Geologist – (December 2000 – January 2005)

\*Develop and implement regulatory Total Maximum Daily Load watershed assessments

\*Submit findings to UC-Berkeley peer review; secure adoption at public Board hearings

Arizona Department of Health Services, Office of Environmental Health, Phoenix, AZ

Enviro. Program Specialist– (May– Dec 2000)- Investigate Superfund Sites under CDC grant

YoungLife's Southwind Property, Ocklawaha, FL

Intern– (May 1999– April 2000)- Intern in facility management for 250+ bed camp facility

Centers for Disease Control/ Agency for Toxic Substances and Disease Registry (CDC/ATSDR),  
Atlanta, GA - (Aug. 1993 - May 1999)

- Technical Project Officer

\*Managed co-operative agreements for 5 different state health departments – including technical review and approval of written project reports, and assisting with staff training

- Geologist/ Environmental Health Scientist

\*Performed chemical fate and transport analyses for public health evaluation of environmental contamination; managed team evaluations as needed

\*Trained and mentored new staff to perform environmental health assessments

Law Environmental, Inc., Kennesaw, GA, Senior Hydrogeologist - (Sept. 1989 – June 1993)

\*Proposed, managed, and performed site characterizations, hydrogeologic analyses, remedial investigations, and digital groundwater flow simulations

\*Managed team personnel and project schedules up to approximately \$2.5 million

\*Testified successfully as expert witness in defense of company and client projects

Emory University, Department of Geology, Atlanta, GA

Assistant Professor - (Aug. 1985-Aug. 1989); Adjunct Faculty - (1989-1999)

\*Developed and taught undergraduate and graduate courses: Hydrogeology, Hydrology, Water Quality, Sedimentology, Environmental Science, and Physical Geology

### **Honors, Awards, Activities:**

Missouri State U. – Foundation Award for Service, 2013 (2 awardees across entire university)  
Missouri State U. – elected to CNAS and Executive Budget Committees, AY 10/11 – 14/15  
Missouri State U – Ozarks Environment & Water Resources Institute - Advisory Board - 2011  
Missouri State U. –Provost’s Committee to Review/Revise General Education Program 2010-2012  
Missouri State U. Graduate College Council – AY 06/07 - 08/09, elected **Chair**- AY 09/10  
Regional Water Quality Control Board, Employee of the Quarter, Jan.-Mar. 2004  
Keynote Speaker – 41<sup>st</sup> Annual Midwest Groundwater Conference, 1996  
CDC/ATSDR Environmental Scientist - Employee of the Year, 1995

### **Professional Affiliations and Activities:**

Geological Society of America; National Speleological Society; American Geophysical Union  
**Registered Professional Geologist** – NC (exam, 1991); GA (1992); FL (2004); MO (2006)  
Review Panelist for MSU Presidential Scholarships [Honors College] (2008 – present)  
Co-Chair of Karst Studies Session at Geological Soc. of America Annual Mtgs – 2014, 2015  
Reviewer for International Science of the Total Environment (2014)  
Reviewer for International Journal of Environmental Pollution (2013)  
Reviewer for Journal of Contaminant Hydrology (2012)  
Reviewer for National Geographic Karst Hydrology Grant Applications (2012)  
Reviewer for USGS Karst Interest Group (2011)  
Reviewer for Journal of Cave & Karst Studies (2010)  
Reviewer for Geologic Society of America Publications (2010, 2007)  
Exhibit Hall Coordinator/ Fundraiser (> \$10,000) – GSA Joint NC/SC Meeting, 2010

### **Publications (Peer Reviewed):**

Johnson, Aaron W., Gutierrez, Melida, **Gouzie, Douglas**, and McAliley, L. Rex, 2016. State of remediation and metal toxicity in the Tri-State Mining District, USA. *Chemosphere*, v144, p1132-1141, Elsevier. <http://dx.doi.org/10.1016/j.chemosphere.2015.09.080> .

**Gouzie, Douglas**, Berglund, James, and Mickus, Kevin, 2015. The Application of Quantitative Fluorescent Dye Tracing to Evaluate Karst Hydrogeologic Response to Varying Recharge Conditions in an Urban Area. *Environmental Earth Sciences*, v.74, p 3099-3111, Springer. DOI :10.1007/s12665-015-4348-0.

Berglund, James, Mickus, Kevin, and **Gouzie, Douglas**, 2014. Determining the Relationship Between A Newly Forming Sinkhole and a Former Dry Stream using Electrical Resistivity Tomography and VLF-EM in an Urban Karst Setting. *Interpretation (Soc of Exploration Geophysicists & AAPG)*. V2, n3, p1-11, August 2014. <http://dx.doi.org/10.1190/INT-2013-0064> .

**Gouzie, Douglas**, Mickus, Kevin, and Mayle, Micah, 2014. Challenges to a Karst Dye-Tracing Investigation in an Urban Brownfields Area, Springfield, Missouri. In: Kuniansky, E.L., and Spangler, L.E., 2014, U.S. Geological Survey Karst Interest Group Proceedings, Carlsbad, New Mexico, April 29 – May 2, 2014: U.S. Geological Survey Scientific Investigations Report 2014-5035, <http://dx.doi.org/10.3133/sir20145035> . p 44 – 53.

Miao, X., X. Qiu, S. Wu, J. Luo, **D.R. Gouzie**, and H. Xie, 2013..Developing Efficient Procedures for Automated Sinkhole Extraction from LiDAR DEM’s. *Photogrammetric Engineering and Remote Sensing*. Vol 79(6): 545-554.

**Gouzie, Douglas**, Dodd, R., and White, D., 2010. Dye Tracing Studies in southwestern Missouri, USA: Indication of Stratigraphic Flow Control in the Burlington Limestone. *Hydrogeology Jnl.*, v.18, n.4.

**Gouzie, Douglas**, and Pendergrass, Gary. February 2009. Investigation and Remediation of the 2006 Nixa, Missouri Collapse Sinkhole. *Environmental and Engineering Geoscience*, v. XV, n. 1, p.13-27.

Dintelmann, D., Gutierrez, M., and **Gouzie, D.**, July 2006. Groundwater Potentiometric Decline in the Springfield, Missouri area. *Environmental Geology*, v. 50, no. 4, p. 541- 549.

**Douglas Gouzie**, 2004. Clear Creek and Hernandez Reservoir TMDL for Mercury. Proceedings of the Central Coast Regional Water Quality Control Board, March 19, 2004, Agenda Item 20. (All TMDLs undergo UC-Berkeley Peer Review.)

**Douglas Gouzie**, 2002. Las Tablas Creek and Lake Nacimiento Total Maximum Daily Load for Mercury. Amendment to Central Coast Regional Basin Plan. Proceedings of the Central Coast Regional Water Quality Control Board, November 1, 2002, Agenda Item 6. (All TMDLs undergo UC-Berkeley Peer Review.)

Thraillkill, John, Sullivan, Stephen, and **Gouzie, Douglas**, 1991. Flow Parameters in a Shallow Conduit-Flow Carbonate Aquifer, Inner Bluegrass Karst Region, Kentucky. *Jrnl. of Hydrology*, v.129, p.87-108.

### **Project Completion Reports and Public Research Reports:**

Scherlinck, Kyle J. and Gouzie, Douglas, 2014, Geologic Mapping of George Washington Carver National Monument and Surrounding Area, Missouri: Missouri State University and Geocorps, unpublished map, report and GIS data, scale 1:24,000. (GRI Source Map ID 75961). Digital Geologic Map of George Washington Carver National Monument and Vicinity, Missouri <https://irma.nps.gov/App/Reference/Profile/2219167>  
The GRI GWCA Data Store project record,  
<https://irma.nps.gov/App/Reference/Profile/2194456>

Gouzie, D., 2014. West Fork Mine Subsidence Report (Letter Report), submitted to Missouri Geological Survey, Missouri Department of Natural Resources, Rolla, MO, July 1, 2014.

Rovey, C., Gouzie, D., and Biagioni, R., 2013. Monitoring and Numerical Modeling of Shallow CO<sub>2</sub> Injection in Greene County, Missouri (report to US Department of Energy [ DOE], OSTI ID: 1132562, DOE Contract # FE0001790). DOI: 10.2172/1132562, September 30, 2013.

Gouzie, D., Plymate, T., and Rovey, C., 2013. Missouri Carbon Sequestration Project Phase II Report –Missouri Statewide Site Activities. (subcontract to City Utilities of Springfield Missouri, contract funded by Department of Energy [ DOE]). September 26, 2013.

Gouzie, D. and Mickus, K., 2013. West Meadows Brownfields Site: “New Diesel Spring” Dye Tracing Report. Submitted under contract to Terracon, Inc., Springfield, MO, July 22, 2013.

Gouzie, D., Gutierrez, M., Plymate, T., and Rovey, C., 2013. Missouri Carbon Sequestration Project Phase I Report – John Twitty Energy Center Site Activities. (subcontract to City Utilities of Springfield Missouri, contract funded by Department of Energy [ DOE]). January 15, 2013.

Pavlovsky, R., J. Steiert, D. Gouzie, B. Gerik, and S. Armstrong, 2007. Finley Creek baseline water quality monitoring project final report (OEWRI EDR-07-002), March 16, 2007.

Gouzie, Douglas, 2007. *Guidebook: GLG360-Basin and Range to California Coast*, Department of Geography, Geology, and Planning, Missouri State University.

- Gouzie, Douglas, 2000. Public Comment Version- Public Health Assessment for Tucson International Airport Area. Tucson, Pima County, Arizona. November 7, 2000, Arizona Dept. of Health Services/ATSDR.
- Gouzie, Douglas and Grissom, Buck. Health Consultation for Industrial Excess Landfill, Uniontown, Stark County, Ohio. March 26, 1999. U.S. Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Kowalski, Peter. Petitioned Health Consultation for Fresh Kills Landfill, Staten Island, Richmond County, NY. December 18, 1998. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas. Petitioned Health Consultation for Austral Insulated Products, Douglasville, Douglas County, Georgia. October 16, 1998. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Moore, Susan. Health Consultation for Fresh Kills Landfill, Staten Island, Richmond County, New York. January 20, 1998. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Schnell, Frank. Health Consultation for Fresh Kills Municipal Landfill, New York, New York. March 15, 1996. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas. Health Consultation for Polymer Resources Limited, Inc., Farmington, Connecticut. October 1995. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Orloff, Kenneth. Health Consultation for Polk County Florida Phosphate Industry, Polk County, Florida. August 8, 1995. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Schnell, Frank. Health Consultation for Great Lakes Chemical Corporation, El Dorado, Arkansas. July 31, 1995. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Schnell, Frank. Health Consultation for Polk County Florida Phosphate Industry, Polk County, Florida. April 18, 1995. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas and Schnell, Frank. Health Consultation for Great Lakes Chemical Corporation, El Dorado, Arkansas. November 9, 1994. US Public Health Service, CDC/ATSDR.
- Gouzie, Douglas. Health Consultation for Florida Phosphate Industry, Polk County, Florida. May 25, 1994. US Public Health Service, CDC/ATSDR.

*Note: all CDC/ATSDR reports go through an internal peer-review board prior to publication*

**Abstracts:**

- Smith, Matthew D. and Gouzie, Douglas, 2015. Building a Trace Metals Database of Cave Sediments of the Midcontinent, USA. *Geo. Soc. Amer. Abstr. with Program.* v47, n7, p.624.
- Johnson, Aaron W., Gutierrez, Melida, Gouzie, Douglas, and McAilley, L. Rex, 2015. Current state of metal toxicity and remediation in the Tri-State Mining District, USA. *Geo. Soc. Amer. Abstr. with Program.* v47, n7, p.660.
- Spoering, Grant R. and Gouzie, Douglas, 2015. Dye Trace Investigation of Fulbright Spring. *Geo. Soc. Amer. Abstr. with Program.* v47, n7, p. 12.

- Smith, Matthew D. and Gouzie, Douglas, 2015. Establishing a Trace Metal Content Database of Cave Sediments of the Midcontinent, USA. *Geo. Soc. Amer. Abstr. with Program*. v47, n1, p.12.
- Gouzie, Douglas, and Mickus, Kevin, 2014. Combining Quantitative Dye-Tracing with Geophysical Methods to Understand Karst Conduit Flow Systems. *Geo.Soc.Amer. Abstr. with Program*, v46, n6, p.457.
- Gouzie, Douglas, Mickus, Kevin, and Mayle, Micah, 2014. Challenges of a Karst Dye-Tracing Investigation in an Urban Brownfields Area. *Geo.Soc.Amer. Abstr. with Program*, v46, n1, p.4.
- Mickus, Kevin, Gerson, Laura, and Gouzie, Douglas, 2014. Urban Geophysical Study of Karst Features in Southwest Springfield, Missouri. *Geo.Soc.Amer. Abstracts with Programs*, v46, n1, p.4.
- Mayle, Micah, Mickus, Kevin, and Gouzie, Douglas, 2013. Using Geophysics and Dye Tracing to Determine a Source for a Contaminated Spring in Springfield, Missouri. *Geo.Soc.Amer. Abstracts with Programs*, v45, n7, p.
- Gerson, Laura, Mickus, Kevin, and Gouzie, Douglas, 2013. Using Geophysical Methods to Study Karst in Urban Springfield, Missouri. *Geo.Soc.Amer. Abstracts with Programs*, v45, n4, p.25.
- Johns, Elizabeth and Gouzie, Douglas, 2013. Site-Specific Geochemical Modeling of Groundwater, Rock, and Carbon Dioxide Interactions: Implications for Geologic Carbon Sequestration. *Geo.Soc.Amer. Abstracts with Programs*, v45, n4, p.2.
- Gerson, Laura, Mickus, Kevin, and Gouzie, Douglas, 2012. An Urban Karst Geophysical Study in Springfield, Missouri. *Geo.Soc.Amer. Abstracts with Programs*, v44, n7, p.78.
- Berglund, James and Gouzie, Douglas, 2012. Conceptualizing Flow Interaction and Conduit Geometry in Near-Surface Karst using a Quantitative Dye Tracing Method. *Geo.Soc.Amer. Abstracts with Programs*, v44, n5, p.20.
- Berglund, James, Mickus, Kevin, and Gouzie, Douglas, 2012. Studying Urban Karst Features using Near-Surface Geophysics in Springfield, Missouri. *Geo. Soc. of Amer. Abstracts with Programs*, v44, n5, p.27.
- Gerson, Laura, Mickus, Kevin, and Gouzie, Douglas, 2012. Electrical Resistivity of Smallin Cave, Southwest Missouri. *Geo. Soc. of Amer. Abstracts with Programs*, v44, n5, p.27.
- Gouzie, Douglas, and Tomlin, Kati, 2011. Parallelism in Karst Development suggested by Quantitative Dye Tracing Results from Springfield, Missouri. Proc. of USGS Karst Interest Group, USGS Scientific Investigations Report 2011-5031, E.L. Kuniansky, 2011, 212 p.
- Starkey, Molly and Gouzie, Douglas. 2010. Bulk Elemental Analysis of the Lamotte Sandstone using Non-Destructive X-Ray Fluorescence. *Geol. Soc. of Amer. Abstracts with Programs*, v42, n5, Oct2010.
- Duckworth, Rachel and Gouzie, Douglas. 2010.(Undergrad Research) Novel Use of an Automated Dye Injection System to Obtain Discharge Values of a Dye-Trace in Ward Branch, Springfield, MO. *Geol. Soc. of Amer. Abstracts with Programs*, v42, n5, Oct2010.
- Henderson, Brandy, Doennig, Anastasia, and Gouzie, Douglas. 2010 (Undergrad Research). Developing an Educational Speleology Packet for Greene County, Missouri. *Geol. Soc. of Amer. Abstracts with Programs*, v42, n2, p. 53, October 2010.

- Starkey, Molly and Gouzie, Douglas. Geochemical variation of the Lamotte Sandstone in southwest Missouri. In *Geol. Soc. of Amer. Abstracts with Programs*, v42, n2, p. 53, April 2010.
- Stanke, Barrett and Gouzie, Douglas. Time-Series relationships in an urban karst watershed in Springfield Missouri. In *Geol. Soc. of Amer. Abstracts with Programs*, v42, n2, p. 78, April 2010.
- Tomlin, Katherine and Gouzie, D. Quantitative Dye Tracing Investigation of Groundwater Flow in the Ward Branch Watershed, Springfield, Missouri. *Geol Soc. Of Am. Abst. with Prog.*,v42, n2, p.98, Apr2010.
- Starkey, Molly and Gouzie, Douglas. Geochemical variation of the Lamotte Sandstone in southwest Missouri. In *Geol. Soc. of Amer. Abstracts with Programs*, v41, n7, p. 146, October 2009.
- Dodds, John E. and Gouzie, Douglas. Geospatial Analysis of Factors related to Karst Development in southwest Missouri. *Geol.Soc. Of Amer. Abstr. with Programs*, v40, n6, October 2008.
- Robbins, Michael and Gouzie, Douglas. Chemical Analysis of the Burlington-Keokuk Limestone with Focus on Horizontal and Vertical Spatial Variability. *Geol.Soc. Amer. Abstr. with Prgm*,v40, n3, Mar2008.
- Looker, Rachel, Mickus, Kevin, and Gouzie, Douglas. Ground Penetrating Radar and Electrical Resistivity Survey near Breakdown Cave, Christian County, MO.*Geol.Soc.Amer Abstr Prgm*, v40,n3, Mar2008.
- Gouzie, Douglas, and Dodd, Rebecca. Bedding Plane Control of Karst Groundwater Flows in Southwestern Missouri Determined by Dye-Tracing Studies. *Geol.Soc. Amer. Abstr. with Prgm*, v39, n6, Oct2007.
- Dodd, Rebecca, and Gouzie, Douglas. Quantitative Dye Tracing and Fluorometry to Determine Subsurface Flowpaths in the Clear Creek Area, Northwest Greene County, Missouri. *Geol. Soc.Amer. Abstr.with Prgm*, v39, n3, March 2007.
- Mukherjee, Arindam, Pavlowsky, Robert, and Gouzie, Douglas. GIS Database for Sinkhole Hazard Assessment in Christian County, Missouri. *Geol.Soc.Amer. Abstr. with Prgm*, v39, n3, March 2007.
- Gouzie, Douglas. Recent Market Opportunities in the Earth and Environmental Sciences. Keynote Address to the 41st Annual Midwest Groundwater Conference, Lexington, KY, 1996.
- Gouzie, Douglas. Annual Environmental Forum Report: Politics and Economics: Geological Research Bridging the Gulf. Session Convener. GSA Today (Newsletter of Geol. Soc. Amer.), v6, n4, Apr1996.
- A Detailed Study of Flow Through a Fractured Shale Unit. Gouzie, Douglas R. and Diprima, Leonard A., 1988. *Eos (Amer. Geophysical Union)*, Nov.1, 1988, v69, no44, p.1187.
- Research Trends of Fluid Flow in Fractured Rock. Gouzie, D.R., 1988. Proceedings of the International Conference on Advances in Ground-Water Hydrology, Nov.1988. Am. Inst. of Hydrology.
- Development of Geochemical Signatures of Ground Water Basins in a Carbonate Aquifer. Gouzie, Douglas R., 1988. *Eos (American Geophysical Union)*, April 19, 1988.
- A Study of Mathematical Fracture Flow Models. DeJong, Richard, and Gouzie, D.R., 1987. Geological Society of America Abstracts with Programs, v19, n7.

A Field Study of Flow Through Fractured Shale. Diprima, Leonard, and Gouzie, D.R., 1987.  
Geological Society of America Abstracts with Programs, v19, n7.

Chemical Signatures of Groundwater Basins in a Carbonate Aquifer. Gouzie, D.R., and Thrailkill, J.,  
1985. Geological Society of America Abstracts with Programs, v17, n7.

### **Invited Presentations:**

- Karst Geology, Keynote Speaker, Missouri Master Naturalists Annual Conference, May 3, 2015.
- Secrets of the Earth - Sinkholes – On-camera and voice-over appearances, one-hour show for the Weather Channel (produced by Flight 33 Productions), first air date: Nov.10, 2014.
- Living with our Landscape: Lessons from Sinkholes, Summer Science Series Lecture (via Skype), Broward County, FL Public Libraries, June 24, 2014.
- Living with our Landscape: Lessons from Sinkholes, Spfld Discovery Center Science Cafe, 4/2011
- Living with our Landscape: Lessons from Sinkholes, Springfield Mature Learners Institute, 10/2010
- Living with our Landscape: Lessons from Sinkholes, Greene Co Master Naturalists, 7/2010
- Power to the People: Carbon Sequestration and Energy Options, Springfield Rotary Club, 5/2009
- Living with our Landscape: The 2006 Nixa Sinkhole, CNAS Lecture Series, Missouri State U., 4/09
- Dye-Tracing in the Springfield Karst Region. Invited Lecture, U. of Arkansas, 8/2007
- The 2006 Nixa Sink: Economics, Politics, Science, and People Meet. Invited, U. of Missouri, 1/2007

### **External Funding Activity:**

#### Awards Funded

- 2014 – **PI** - National Park Service, Geologic Resource Division - Oversight of summer Geocorps Student Project, \$300 (earned \$3000 internship for MSU-GGP student)
- 2013 – **PI** – Terracon, Inc w/City of Springfield (Brownfields Site, USEPA contract) – Geophysical Survey and Dye Tracing for the “New Diesel Spring” at the West Meadows Site, \$6900
- 2011 – **PI** - Springfield (MO) City Utilities, Missouri Carbon Sequestration Project, Additional tasks \$88,000 (contractor to CU on \$2.2 million grant extension from U.S. DOE)
- 2009 – **co-PI** – US Dept of Energy, Monitoring and Numerical Modeling of Shallow CO2 Injection, Greene County, Missouri, \$293,118
- 2008 – **PI** - Springfield (MO) City Utilities, Missouri Carbon Sequestration Project, \$344,765 (contractor to City Utilities on \$2.2 million grant from U.S. Dept. of Energy)
- 2008 – **PI** - Table Rock Lake Water Quality, Inc., Optical Brightener Study, \$9024
- 2007 – **PI** - Summerville Family, Matching Alumni Challenge Grant, \$20,000
- 2006 – **PI** - Watershed Committee of the Ozarks, Missouri Speleological File Indexing, \$5559
- 2006 – **co-PI** - James River Basin Partnership, Finley Creek Water Quality Baseline, \$6757
- 2006 - **co-PI** - Missouri State University, Graduate Student Recruitment Initiative, \$3250 (internal)
- 2005 – **PI** - Missouri State University Faculty Research Grants, Field Optimization of Streamflow Measurement using Fluorescent Dye Dilution, \$5210 (internal)

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*Total external funds at Missouri State U: apprx. \$750,000 (~\$450,000 as PI + ~\$300,000 as co-PI)*

Recent Unfunded Proposal Applications:

NSF 2013- Critical Zone Observatory for Karst – \$44,000 (sub-contract to University of Arkansas proposal).

NSF 2012 – Research Experience for Undergraduates – Cave Research REU – \$326,000 (Joint Application with NW Missouri State University); planning to re-submit in next cycle.

US Dept of Energy 2010 – Carbon Sequestration Potential Investigation for Unmineable Coal beds in Missouri – (joint with MO-DNR-Geologic Survey as PI, MSU portion ~ \$120,000, DRG & K.Mickus).

**Masters Students Mentored as Thesis Advisor:**

Diprima, Leonard A., Jr. – Emory University, 1989

White, David A. - (Southwest) Missouri State University, 2006

Dodd, Rebecca Peterson - (Southwest) Missouri State University, 2007

Robbins, Michael - in progress (started Fall 2007)

Stanke, Barrett - Missouri State University, 2010

Tomlin (Spinks), Katherine – Missouri State University, 2010

Starkey, Molly A. - Missouri State University, 2011

Berglund, James - Missouri State University, 2012

Diaz, Nathan - in progress (started Fall 2010)

Johns, Elizabeth - Missouri State University, 2014

Matt Smith - Missouri State University (in progress for 2016)

Note: 7 out of 9 Missouri State University students completed; 5 of those 7 ‘on-time’ ( $\leq 2$  years)

**Masters Students Mentored as Committee Member:**

2007 – Gopala Borchelt

2009 – Lucas Rengstorf; Patrick Womble

2010 – Erin Hutchinson; Brad Mitchell

2011 – Marissa Berger

2012 – Andrew DeWitt

2013 – Stephen Shields; Stephanie Stratton

2014 – Loring Bullard; Emme Mayle; Jessica Peebles

2015 – Brandon Ives

**Undergraduate Research Projects Mentored:**

Brian Houser – 2006

Angie Anderson - 2008

Trevor McLouth – 2008, 2009

Annie Doennig, Brandy Henderson\* – 2010

Rachel Duckworth (summer REU experience, U.Missouri student)\* – 2010

Sarah Morris, Thomas Sensaman - 2011

Matt Butler – 2012, 2013

Micah Mayle\* - 2013

Kyle Scherlinck #; 2014

Grant Spoering\*# - 2014/15

Ben Lockwood - 2016

Note: \* = presented by student(s) at Geologic Society of America Annual Meeting

# = presented by student at Assoc. of Missouri Geologists/ Mo-AIPG Annual Meeting