

VITA

Kevin Mickus

Professor of Geology
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PERSONAL

My research involves the interpretation of gravity, magnetic and electromagnetic data for crustal and upper mantle structure plus for resources (mining, geothermal), environmental and archaeological applications. My studies have included the Ouachita orogenic belt in Arkansas, Oklahoma and Texas; Precambrian boundaries in the Pacific NW; the Mojave extensional terrane in southern California and western Arizona; the east African Rift system in Ethiopia, Kenya and Botswana; the Atlas Mountains in Algeria and Tunisia; and volcanic fields in California, Antarctica and Arizona. Environmental and archaeological applications include using gravity, DC-resistivity, electromagnetic and GPR data.

EDUCATION

Ph.D. in Geophysics, 1989, University of Texas at El Paso.
M.Sc. in Geophysics, 1985, University of Texas at Dallas.
B.Sc. in Geology, 1982, University of Washington, Seattle.

TEACHING APPOINTMENTS

Assistant Professor of Geology, Southwest Missouri State University, 1989-1994.
Associate Professor of Geology, Southwest Missouri State University, 1994-1999.
Professor of Geology, Missouri State University, 1999-present.

Courses taught: Physical Geology, Environmental Geology, Oceanography, Applied Geophysics, Geophysics for Archaeologists, Advanced Remote Sensing, Planetary Geology, Undergraduate Research, Graduate Research, Directed Field Trips. Global Tectonics, Seismic Data Processing

RECENT THESIS COMMITTEES:

Babs Horrihs, 2010, MS Missouri St. U., chair
Matt Cosatt, 2010, MS-, Missouri State Univ., chair
Ben Weide, 2011, MS, Missouri State Univ., chair
Sharon Blauvelt, 2011, MS, Missouri State Univ. Chair
Antony Wamalwa, 2011, PhD, Univ. Texas-El Paso, member
Abraham Ledezma, 2012, MS, Missouri State Univ., member-Archaeology
Daniel Salas, 2012, MS, Missouri State Univ., member-Archaeology
Bingzhu. Wang, 2011, PHD, Missouri-Rolla, member
Dave Bridges, 2010, PHD, Missouri-Rolla, Co-chair
Olubunmi Elebiju, 2010, PHD, Univ. Of Oklahoma, member
Kevin Moon, 2012, MS, Missouri State Univ., member
Hammed Al-Refae, 2012, PhD, Univ. Missouri-Rolla, member
Jim Berglund, 2012, MS, Missouri State Univ., Co-Chair

Travis Fultz, 2015, MS, Missouri State Univ., Chair
Joe Spinks, 2011, MS, Missouri State Univ., Chair
John Gold, 2015, MS, Missouri State Univ., Chair
Shannon McAdam, 2011, MS, Missouri State Univ., Chair
Laura Gerson, 2015, MS, Missouri State Univ., Chair
Alicia Metzger, 2015, MS, Missouri State Univ., Chair
Brandon Ives, 2015, MS, Missouri State Univ., Chair
Anna Mwangi, 2016, PHD, Univ. of Texas at El Paso, Co-Chair
Uranbaigal Purevsuren, 2014, PhD, MUST, member
Cory Reed, 2014, Ph D, MUST, member
Xiao, Xu, 2014, PhD, Univ. Ok., member
Mokali Gabrone, 2013, MS, University of Botswana
Calistus Ramotoroko, 2016, PHD, Botswana Institute of Technology

Visiting Scholars

Dr. A. Sanusi, Spring 2014, Nigeria-gravity and magnetic of northern Nigeria
Dr. Ahmed Alazzawi, Spring-Fall 2015, Iraq-gravity and magnetics of western Iraq

PROFESSIONAL ORGANIZATIONS

Geological Society of America
American Geophysical Union
Society of Exploration Geophysicists
European Association of Exploration Geophysicists
Geological Society of Africa
Society of Economic Geologists

COMMITTEES and SERVICE

University

GGP Faculty Senate Representative 2002-2006; 2012-present
Faculty Advisor-Geology Club

National and International

Editorial Board- Journal of Applied Geophysics-1999-2010
Editor-Journal of Environmental Protection- 2011-present
Missouri State Univ. Rep for UNAVCO-NSF GPS Instrument and Research Facility
Committee member for Magnetotelluric component of the NSF project EARTHSCOPE
Geophysics Division Chair of the Geological Society of America-2010-2011
Program Chairman for the 2010 Joint North Central/South Central sectional meeting of the
Geological Society of America Meeting
Co-Chair- Geological Society of America Annual Meeting, Denver, 2013
Program Chair elect for the 2014 Annual meeting of the Geological Society of America
Meeting-Vancouver
Annual Program Committee-Geological Society of America 2012-2015.

Session Chair at Meetings

Geoscience Investigations of Polar Regions: T138 at Geological Society of America Annual Meeting, Denver, 2014.

Special Session: GSA Geophysics Division 40th Anniversary: Session 125 at Geological Society of America Annual Meeting, Minneapolis, 2011.

Combining Geology and Geophysics: Session T6 Geological Society of America Annual Meeting, Minneapolis, 2011.

The Earthscope Program: Recent results and Future Projects: P5 at Geological Society of America Annual Meeting, Minneapolis, 2011.

Geophysics in the Central and Northeastern United States: T42 at Geological Society of America North-Central/Northeastern Sectional Meeting, Pittsburgh, 2011.

Combining Geology and Geophysics: Session T84 Geological Society of America Annual Meeting, Denver, 2010.

Lithospheric structure of the Mid-continent region: What we know, what we need to know and what can Earthscope tell us: T1 at Geological Society of America North-Central/South-Central Sectional Meeting, Branson, 2010.

Combining Geology and Geophysics: Session T129 Geological Society of America Annual Meeting, Portland, 2009.

Outside Reviewer for Promotion/Tenure

Dennis Harry-University of Alabama

Joe Kruger-Idaho State University

Steve Gao-Missouri University of Technology

Mohamed Abdelsalam- Missouri University of Technology

Harold Gurrola-Texas Tech University

Audrey Huerta-Central Washington University

Farris Akem-United Emirates University

AWARDS

College of Natural Science Research award, 1996

University Research award, 1998

Sabbatical Leave, 1999

University Research award 2004

CNAS Research Award 2012

Fellow-Geological Society of America, 2012

PUBLICATIONS

REFEERED PAPERS

Leseane, K., Atekwana, E., Mickus, K., Abdelsalam, M., Shemang, E., and Atekwana, E., 2015, Thermal perturbations beneath the incipient Okavango rift zone, northwest Botswana, In Press, Journal of Geophysical Research.

Gouzie, D., Berglund, J., and Mickus, K., 2015, Using quantitative dye-trace results to determine karst conduit flow connections in an urbanizing area, In Press, Journal of Environmental Earth Sciences.

- Dhaoui, M., Gabtni, H., Jallouli, C., Jleilia, A., Mickus, K., and Turki, M., 2014, Gravity analysis of the Precambrian basement topography associated with the northern boundary of the Ghadames Basin (southern Tunisia), *Journal of Applied Geophysics*, 111, 299-311.
- Shemang, E., Mickus, K., Odirile, P., Atanga, M., Suh, C., and Tsheboeng, Ap., 2014, The closing of a mine: A case study of the effectiveness of rehabilitation works at the Moshaneng asbestos mine, Botswana, *International Journal of Environmental Protection*, 4, 88-100.
- Berglund, J., Mickus, K., and Gouzie, D., 2014, Determining a relationship between a newly forming sinkhole and a former dry stream using electrical resistivity tomography and VLF in an Urban Karst Setting, In Press, Interpretation.
- Gouzie, D., Mickus, K., and Mayle, M., 2014, Challenges to a karst dye-tracing investigation in an urban brownfields area, Springfield Missouri, In: (Kuniansky, E. and Spangler, L., eds.) U.S. Geological Survey Karst Interest Group Proceedings, U.S. Geological Survey Scientific Investigations Report 2014-5035, p. 44-53.
- Wamalwa, A., Mickus, K., and Serpa, L., 2013, Geophysical characterization of the Menengai Volcano, Central Kenya Rift from the analysis of magnetotelluric and gravity data, *Geophysics*, 78, 187-199.
- Jallouli, C., Mickus, K., and Turki, M., 2013, Evidence for a East-West regional gravity trend in northern Tunisia: insight on the structural evolution of the Northern Tunisian Atlas, *Tectonophysics*, v. 6, p. 149-160.
- Shemang, E., Molwalefhe, L., and Mickus, K., 2013, Applying DC resistivity imaging to investigating the relationship between water quality and transpiration beneath circular islands in the Okavango Delta, Botswana: a case study of Thata Island, *Earth Sciences Research Journal*, v. 17, 25-32.
- Gabtni, H., Jallouli, C., Mickus, K., and Turki, M., 2013, Geodynamics of the southern Tethyan margin in Tunisia and Maghrebian domain: new constraints from integrated geophysical study: *Arabian Journal of Earth Sciences*, v. 6, p. 271-286.
- Wamalwa, A., Mickus, K., and Serpa, L., 2013, Joint Geophysical Analysis of the Coso Geothermal Field, southeastern California: *Physics of the Earth and Planetary Interiors*, 214, 25-34.
- Hussein, M., Mickus, K., and Serpa, L., 2012, Curie depth analysis of Death Valley and surrounding regions, *Pure and Applied Geophysics*, doi: 10.1007/s00024-012-0557-6.
- Gabtni, H., Jallouli, C., Mickus, K., Turki, M., and Keating, P., Basement structure of southern Tunisia as determined from the analysis of gravity data: Implications for petroleum exploration, *Petroleum Geoscience*, 18, 143-152, 2012.
- Gabtni, H., Alyahyaoui, S., Jallouli, C., Hasni, W., and Mickus, K., 2012, Gravity and seismic reflection imaging of a deep aquifer in an arid region: Case history from the Jeffara basin, southeastern Tunisia: *Journal of African Earth Sciences*, v. 66-67, p. 85-97.
- Mosley, K., Atekwana, E., Abdelsalam, M., Shemang, E., Atekwana, El., Mickus, K., Moidaki, M., Modisia, M., and Molwalefhe, L., 2012, Geometry and faults tectonic activity of the Okavango Rift Zone, Botswana: Evidence from magnetotelluric and electrical resistivity tomography imaging, *Journal of African Earth Sciences*, v. 65, p. 61-71.
- Bridges, D., Mickus, K., Gao, S., Abdelsalam, M., and Alemu, A., 2012, Magnetic stripes of a transitional continental rift in Afar: *Geology*, v. 40, p. 203-206.
- Shemang, E., Mickus, K., and Same, M., 2011, Geophysical characterization of the abandoned Gaborone landfill, Botswana: Implications for abandoned landfills in arid environments: *International Journal of Environmental Protection*, v. 1, p. 1-12.
- Elsheikh, A., Abdelsalam, M. and Mickus, K., 2011, Geology and geophysics of the West Nubian Paleolake and northern Darfur Megalake (WNPL-NDML): Implication for groundwater resources in Darfur, northwestern Sudan: *J. African Earth Sciences*, v. 61, p. 82-93.
- Bashir, L., Gao, S., Liu, K., and Mickus, K., 2011, Crustal structure and evolution beneath the Colorado Plateau and the southern Basin and Range Province: Results from receiver function and

gravity studies: *Geochemistry, Geophysics and Geosystems*, v. 12, Q06008, doi:10.1029/2011GC003563

Gabtni, H., Zenatti, B., Jallouli, C., Mickus, K., and Bedir, M., 2011, The crustal structure of the Sahel Basin (eastern Tunisia) determined from gravity and geothermal gradients: implications for petroleum exploration: *Arabian Journal of Earth Sciences*, v. 4, p. 507-516.

Langenheim, V., Biehler, S., Negrini, R., Mickus, K., Miller, D., and Miller, R., 2009, Gravity and magnetic investigations of the Mojave National Preserve and adjacent areas, California and Nevada, U.S.G.S Open-file report 2009-1117.

Mickus, K., Stern, R., Keller, G., and Anthony, E., 2009, Potential field evidence for a volcanic rifted margin along the Texas Gulf Coast, *Geology*, v. 37, 387-390.

Gabtni, H., Jallouli, C., and Mickus, K., 2009, Deep structure and crustal configuration of the Jeffara basin (Southern Tunisia) based on regional gravity, seismic reflection and borehole data: How to explain a gravity maximum within a large sedimentary basin? *Journal of Geodynamics*, v. 47, 152-162.

Mickus, K., Tadesse, K., Keller, G., and Oluma, B., 2009, Three-dimensional gravity modeling of the magmatic segments within the Main Ethiopian Rift, *Journal of Tanzanian Earth Sciences*, v. 1, p. 96-106.

Gutierrez, M., Martinez-Pina, C., Luo, J., and Mickus, K., 2008, Geochemical processes contributing to the contamination of soil and surface waters in the Rio Conchos Basin, *Geosphere*, v. 4, p. 600-611.

Mickus, K., 2008, Gravity analysis of Burkina Faso: Implications for base metal exploration, *J. African Earth Sciences*, v. 50, p. 55-66.

Gurrola, H., Mickus, K., and Burrell, J., 2008, Frequency domain electromagnetic and ground penetrating radar investigation of ephemeral streams: case study near the Southern High Plains, Texas, *Environmental Geology*, v. 55, p. 1169-1179.

Whitelaw, J., Mickus, K., Whitelaw, M., and Nave, J., 2007, High resolution gravity study of the Gray Fossil Site, Washington County, Tennessee, *Geophysics*, v. 73, p. 825-833.

Mickus, K., 2007, Precambrian blocks and orogen boundaries in the north-central United States determined from gravity and magnetic data: in Hatcher, R., Carlson, M., McBride, J., and Martinez J. (eds.), *4-D Framework of Continental Crust: Geological Society of America Memoir 200*, p. 327-340, doi: 10.1130/2007.1200(16).

Mickus, K., Tadesse, K., Keller, G., and Oluma, B., 2007, Gravity analysis of the Main Ethiopian Rift: *Journal of African Earth Sciences*, v. 48, p. 59-69.

Johnson, A., and Mickus, K., (2006), Electrical resistivity and magnetic investigation of the Dorton Fort, Russell County, Virginia in, *Historical Sketches of Southwest Virginia*, Historical Society of Southwest Virginia Publication No. 40., p. 84.

Johnson A., and Mickus, K., (2006), Electrical resistivity and magnetic investigation of the Dorton Fort, Russell County, Virginia: Open File Report, Historical Society of Southwest Virginia, Wise, Virginia, 17 pp.

Gabtni, H., Jallouli, C., Mickus, K., Zouari, H., and Turki, M., 2006, Gravity evidence for the location and nature of the Telemzan High-Ghadames basin boundary in southern Tunisia, *J. African Earth Sciences*, v. 44, p. 303-313.

Plymate, T., Mickus, K., and Smith, J., 2005, Late Cenozoic volcanism in and near Petrified Forest National Park, northeastern Arizona, accepted to *Rocky Mountain Geology*.

Jallouli, C., Chikhaoui, M., Braham, A., Turki, M., Mickus, K., and Benassy, B., 2005, Reply to discussion on Evidence for Triassic salt dome/diapiric structures within the Jebel Debadib and Ben Gasseur region (northwestern Tunisian Atlas) from gravity and geological data: *Tectonophysics*: v. 315, p. 209-225.

Jallouli, C., Chikhaoui, M., Braham, A., Turki, M., Mickus, K., and Benassy, B., 2005, Reply to discussion on Evidence for Triassic salt dome/diapiric structures within the Jebel Debadib and Ben

Gasseur region (northwestern Tunisian Atlas) from gravity and geological data: *Tectonophysics*, v. 315, p. 209-225.

Jallouli, C., Chikhaoui, M., Braham, A., Turki, M., Mickus, K., and Benassy, B., 2005, Evidence for Triassic salt dome/diapiric structures within the Jebel Debadib and Ben Gasseur region (northwestern Tunisian Atlas) from gravity and geological data: *Tectonophysics*, v. 315, p. 209-225.

Mickus, K., 2005, Review of the book "Geodynamics of Azores-Tunisia" edited by Buforn, E., Martin-Davila, J., and Udias, A., for *Geophysical Journal International*, v. 162, p. 651-652.

Gabtni, H., Jallouli, C., Mickus, K., Zouari, H., and Turki, M., 2005, Geophysical constraints on the location and nature of the North Saharan Flexure in southern Tunisia: *Pure and Applied Geophysics*, v. 162, p. 2051-2069.

Mickus, K., 2004, The gravity method in engineering and environmental applications, In: *Geophysics 2003: Federal Highway Administration and Florida Department of Transportation special publication*, in press.

Evans, K.R., Mickus, K.L., Rovey, C.W. II, and Davis, G.H., 2004, Field Trip I: The Weaubleau-Osceola Structure: Evidence of a Mississippian Meteorite Impact in Southwestern Missouri, in Plymate, T.G. (ed.), *Field Trip Guidebook of the Association of Missouri Geologists 50th Annual Meeting, Springfield, Missouri, September 26-27, 2003*, Missouri Department of Natural Resources, Geological Survey and Resource Assessment Division, Report of Investigation No. 75 (Guidebook No. 26), p. 1-30.

Gutiérrez, M., K. Mickus, and E. Johnson, 2004, Watershed assessment along a segment of the Rio Conchos in Northern Mexico using satellite images, *Journal of Arid Environments*, v. 56, p. 395-412.

Mickus, K., 2004, Gravity constraints on the crustal structure of Central America: in *The Circum-Gulf of Mexico and the Caribbean: Hydrocarbon habitats, Basin formation and Plate tectonics*, edited by Bartolini, C., Buffler, R., and Blickwede, J., AAPG memoir 79, p. 638-655.

Maguire, P., Ebinger, C., Stuart, G., Mackenzie, G., Whaler, K., Kendall, J., Khan, M., Fowler, C., Klemperer, S., Keller, R., Furman, T., Mickus, K., Asfaw, L., Ayele, A., and Abebe, B., 2003, Geophysical Project in Ethiopia Studies Continental Breakup: EOS: *Transactions of the American Geophysical Union*, v. 87, p. 337-342.

Jallouli, C., Mickus, K., and Turki, M., 2002, Gravity constraints on the location and nature of the African plate boundary in northern Tunisia: *Geophys. J. International*, v. 151, p. 117-131.

Jallouli, C., Mickus, K., and Turki, M., 2003, Gravity and aeromagnetic constraints on the extent of Cenozoic volcanic rocks within the Nefza-Tabarka region, northwestern Tunisia: *J. Volc. Geoth. Res.*, v. 122, p. 51-68.

Hinojosa, J., and Mickus, K., 2002, Finite difference modeling of thermoelastic lithospheric uplifts: *Computers and Geosciences*, v. 28, p. 155-167.

Bartolini, C., and Mickus, K., 2002, Tectonic blocks, magmatic arcs, and oceanic terrains: A preliminary interpretation based on gravity, outcrop and subsurface data, north-central Mexico: in Bartolini, C., Buffler, R., and Cantu-Chapa, A. (eds.), *Mesozoic and Cenozoic Evolution of the Western Gulf of Mexico Basin: Tectonics, Sedimentary Basins and Petroleum*: Tulsa, OK., Am. Assoc. Petroleum Geol. Memoir 75, p. 399-420.

Hinojosa, J., and Mickus, K., 2002, Hilbert Transform of Gravity Gradient Profiles: Special Cases of the General Gravity Gradient Tensor in the Fourier Transform Domain: *Geophysics*, v. 67, p. 766-769.

Mickus, K. and Hinojosa, J., 2001, Erratum to "The complete gravity gradient tensor derived from vertical gravity data: A Fourier Transform technique": *J. Applied Geophy.* 47, 169.

Mickus, K., and Johnson, E., 2001, Mapping of sedimentary and volcanic units in Petrified Forest National Park, Arizona, using Landsat IV and SPOT pan. data: *Inter. J. Remote Sensing*, v. 22, p. 1919-1935.

Mickus, K. and Hinojosa, J.H., 2001, The complete gravity gradient tensor derived from vertical

gravity data: A Fourier Transform technique: *Journal of Applied Geophysics*, v. 46, 159-174.

Mickus, K., 2000, Magnetic Method: In: *Geophysics 2000: Federal Highway Administration and Missouri Department of Transportation special publication*, paper 1-9.

Mickus, K., 2000, Gravity Method: In: *Geophysics 2000: Federal Highway Administration and Missouri Department of Transportation special publication*, paper 1-8.

Moreno, F., Mickus, K., and Keller, G., 2000, The extent of the Ouachita orogenic belt into Mexico and the crustal structure of northern Mexico: *Geofisica Internacional*, v. 39, p. 229-246.

Jallouli, C., and Mickus, K., 2000, Regional gravity analysis of Tunisia: *J. of African Earth Sciences*, v. 30, p. 345-357.

Mickus, K., and Jallouli, C., 1999, Crustal and upper mantle structure of the Atlas Mountains region, Algeria and Tunisia from the analysis of gravity data: *Tectonophysics*, v. 314, p. 373-385.

Mickus, K., and McCurry, M., 1999, Gravity and magnetic constraints on the structure of the Woods Mountain volcanic center, southeastern California: *Bulletin of Volcanology*, 60, p. 523-533.

Mickus, K., and Montana, C., 1999, Crustal structure of northeastern Mexico as revealed through the analysis of gravity data: In: *Mesozoic Sedimentary and Tectonic History of North-Central Mexico*, (C. Bartolini and T. Lawton, eds.), *Geological Soc. of Am. special paper 340*, p. 357-372.

Mickus, K., 1999, Magnetotelluric observations in the western Ouachita Mountains, Oklahoma: *Geophysics*, 64, p. 1680-1688.

Mickus, K.L., 1998, Gravity and magnetic study of the southern Chocolate Mountains, southeastern California: Possible extension of the Mesquite gold mine, In: *Geologic Applications of Gravity and Magnetic Case Histories*, (P. Millegan and R. Gibson, eds.), *Am. Assoc. Petrol. Geol., Studies in Geology 43*, p. 105-111.

Mickus, K.L., 1998, Overview of the Gravity Method: In: *Highway Applications of Engineering Geophysics with an Emphasis on Previously Mined Ground*, (N. Anderson, S. Cardimona and T. Newton, eds.), *Missouri Dept. of Transportation*, p. 78-91.

Harry, D., and Mickus, K., 1998, Gravity constraints on lithospheric flexure and the structure of the late Paleozoic Ouachita orogen in Arkansas and Oklahoma, south central North America: *Tectonics*, v. 17, p. 187-202.

Mickus, K.L. and Durrani, B., 1996, Gravity and magnetic study of crustal structure of the San Francisco volcanic field, Arizona: *Tectonophysics*, v. 267, p. 73-90.

McCurry, M., Lux, D., and Mickus, K., 1995, Neogene structural evolution of the Woods Mountains Volcanic Center, East Mojave National Scenic Area, San Bernardino County Museum Assoc. *Quat.*, v. 42, 75-80.

Moreno, F., Keller, G.R., and Mickus, K., 1994, The extent of the Ouachita orogenic belt into northern Mexico: 1994 West Texas Geological Society Guidebook.

Hinojosa, J.H., and Mickus, K.L., 1993, Foreland Basin-A Fortran program to model the formation of foreland basins due to the flexural deflection of the lithosphere caused by a time varying distributed load: *Computers and Geosciences*, v. 19, p. 1321-1332.

Johnson, E., Klein, M., and Mickus, K.L., 1993, Analyzing the feasibility of thematic mapper images to monitor landfills in southwest Missouri: *Environmental Geology*, v. 22, p. 129-140.

James, W.C., Knoll, M.A., and Mickus, K.L., 1993, Ship Mountains megabreccia: Implications for Miocene extensional tectonics in the eastern Mojave Desert, California: *J. Geology*, v. 101, p. 115-120.

Mickus, K.L., and Keller, G.R., 1992, Lithospheric structure of the south-central U.S.: *Geology*, v. 20, p. 335-338.

Montana, C., Mickus, K.L., and Peeples, W.J., 1992, Program to calculate the gravitational field and gravity gradient tensor due to right rectangular prisms: *Computers and Geosciences*, v. 18, n. 5, p. 587-602.

Mickus, K.L., and Peeples, W.J., 1992, Inversion of gravity and magnetic data for the lower surface of a two and one-half dimensional sedimentary basin: *Geophysical Prospecting*, v. 40, p.

171-193.

Mickus, K.L., Aiken, C.L.V., and Kennedy, W.D., 1991, Regional-residual gravity anomaly separation using the minimum curvature technique: *Geophysics*, v. 56, p. 279-283.

Mickus, K.L., and James, W.C., 1991, Regional gravity studies in southeastern California, western Arizona and southern Nevada: *Jour. Geophysical Research*, v. 96, B7, p. 12,333-12,350.

Mickus, K.L., 1991, Consistent geologic areas for epithermal gold-silver deposits in the Walker Lake Quadrangle of Nevada and California: delineated by quantitative methods - a discussion: *Economic Geology*, v. 86, p. 1756-1757.

Mickus, K.L., and Baker, M.R., 1991, Program to correct anomalous subsurface temperature gradients caused by surface temperature changes: *Computers and Geosciences*, v. 17, n. 7, p. 995-1008.

Mickus, K.L., Aiken, C.L.V., Peeples, W.J., and Ziegler, D., 1988, A gravity and magnetic study of the Triassic Richmond Basin, Virginia: in Manspiezer, W., ed., *Triassic-Jurassic Rifting and the Opening of the Atlantic Ocean*, Elsevier Publ. Co., The Netherlands.

ABSTRACTS/PRESENTATIONS

Tedasse, K., Mickus, K., and Keller, G., 2015, Gravity analysis of the crustal structure of the main Ethiopia Rift, presented to the South-Central Sectional meeting of the Geological Society of America, Stillwater.

Ives, B., Mickus, K., and McCafferty, A., 2015, Locating possible unknown economic mineral resources in the Northwest St. Francois Terrane using regional gravity data, southeast Missouri, presented to the South-Central Sectional meeting of the Geological Society of America, Stillwater.

Matende, K., Atekwana, E., Abdelsalam, M., Davila, L., and Mickus, K., 2015, Magmatic underplating below the Karoo aged Luangwa rift valley, Zambia, presented to the South-Central Sectional meeting of the Geological Society of America, Stillwater.

Katumwehe, A., Atekwana, E., Abdelsalam, M., and Mickus, K., 2015, Thermal structure and crustal thickness beneath the Albertine Rift, Uganda from potential field data, presented to the South-Central Sectional meeting of the Geological Society of America, Stillwater.

Mickus, K., 2015, Detailed gravity analysis of geothermal features in western Yellowstone National Park, presented to the South-Central Sectional meeting of the Geological Society of America, Stillwater.

Kuvanc, M., and Mickus, K., 2015, Preliminary analysis of gravity data for the crustal structure and petroleum potential of southeast Turkey, presented to the South-Central Sectional meeting of the Geological Society of America, Stillwater.

Reed, C., Mohamed, A., Gao, S., Mickus, K., Liu, K., Yu, Y., and Elsheikh, A., 2014, Evolution of the Red Sea continental margin from integrated analysis of gravity, magnetic and receiver function observations, presented to Fall AGU meeting, SF.

Hussein, M., and Mickus, K., 2014, Crustal extension variations along the Rio Grande Rift, USA, Presented to the Geological Society of America Annual Meeting, Denver.

Mwangi, A., Mickus, K., and Serpa, L., 2014, Magnetotelluric and gravity data analysis of the Olkaria Geothermal Field, Kenyan Rift, Preliminary results, Presented to the Geological Society of America Annual Meeting, Denver.

Ives, B., Mickus, K., McCafferty, A., Seeger, C., and Starkey, M., 2014, Analyzing the Paleozoic basement structure and lithologies of the northwest St. Francois Terrane, Missouri using gravity data to investigate possible mineral deposits of economic interest, Presented to the Geological Society of America Annual Meeting, Denver.

Sanusi, A., and Mickus, K., 2014, Gravity and magnetic analysis of the Bornu Basin, northeast Nigeria, Presented to the Geological Society of America Annual Meeting, Denver.

Evans, K., Bassett, D., Mickus, K., Cauthon, M., Elson, J., and Newbold, K., 2014, Geologic map of the Jane 7.5 minute quadrangle, southwestern Missouri: Evidence for Pre-Pennsylvanian tectonic development of the Ozarks uplift, Presented to the Geological Society of America Annual Meeting, Denver.

Gouzie, D., and Mickus, K., 2014, Combining quantitative dye-tracing with geophysical methods to understand karst systems, Presented to the Geological Society of America Annual Meeting, Denver.

Mickus, K., and Kyle, P., 2014, A detailed gravity survey of the Erebus volcano, Antarctica, Presented to the Geological Society of America Annual Meeting, Denver.

Metzger, A., and Mickus, K., 2014, Geophysical investigations in the Midcontinent Rift of Nebraska and Kansas, Presented to South Central Meeting of the Geological Society of America.

Mickus, K., Gerson, L., and Gouzie, D., 2014, Urban geophysical study of karst features in southwest Springfield, Missouri., Presented to South Central Meeting of the Geological Society of America.

Gouzie, D., Mickus, K., and Mayle, M., 2014, Challenges of a karst dye-tracing investigation in an urban brownfields area, Presented to South Central Meeting of the Geological Society of America.

Ives, B., Mickus, K., and McCafferty, A., 2014, Regional gravity survey investigating poorly studied areas of the northwest St. Francois Terrane, southeast Missouri, Presented to South Central Meeting of the Geological Society of America.

Mickus, K., Abdelsalam, M., and Thurmond, A., 2013, Contrasting gravity signatures from tectonic stretching rifting and magma-assisted rifting: The Dobe and Tendaho grabens of the Afar Depression, Ethiopia, presented to the Society of Exploration Geophysicists Workshop on Exploration of Continental Rifts: From regional to prospect level, SEG annual Meeting, Houston.

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FUNDED RESEARCH GRANTS

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- Acquisition of Seismic Reflection Interpretation Software, 2014, \$22,000, Seisware Inc.
- Electrical resistivity survey of the Diesel Spring Area Site, Terracon, 2013, \$6900.
- Electrical Resistivity Survey near Mt. Vernon, Missouri, 2013, \$7,200, Hoover Consulting.
- Comprehensive Analyses of Broadband seismic data recorded in the Afar Depression, Ethiopia, Statoil, 2012, \$28,329
- Structural and Stratigraphic Evolution of the Southern Margin of Laurentia: Geologic Mapping of the Jane, Missouri 7.5-minute Quadrangle, USGS Edmap Program (with Kevin Evans), 2013, \$9690.
- Ground Penetrating Radar study of the Hazelwood Cemetery, Springfield, City of Springfield, 2011, \$4500.
- Gravity and magnetic analysis of the Chiwaukum basin, Washington, MSU faculty research grant, 2009, \$7100.
- Big River Mining Sediment Storage Assessment, U.S. Fish and Wildlife Agency, 2009, \$92,000.

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Gravity data collection in eastern Oman, NGA, (\$73,500), 2007.

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Tectonic analysis of the Spokane Dome of eastern Washington and northern Idaho through gravity data interpretation, SMSU research grant (\$4,382), 2005.

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Supplement grant to US-EAGLE, \$4000, National Science Foundation, 2005.

(US-EAGLE), (Ethiopia-Afar Grand Lithospheric Experiment): Modification of lithospheric structure during continental breakup, Collaborative research with Stanford, UTEP and Penn. State Univ., total funding \$1.5 Million, SMSU portion \$32,771, National Science Foundation, 2002.

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A gravity analysis to determine the source of earthquakes within the Spokane Seismic zone, (\$3,035), SMSU Faculty Research grant, 2002.

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Using gravity data to map the Proterozoic continental margin in eastern Washington, (\$5,000), SMSU Summer Faculty Fellowship, 2001.

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Lithospheric structure of the Wyoming Craton, (\$24,000), Exmin Corporation, 1993.

Analysis of stress drops, rupture lengths and slip distributions along the northern segment of the New Madrid Seismic zone, (\$23,330), United States Geological Survey, 1992.

Addition of electromagnetic geophysical equipment to geoscience curriculum with emphasis on environmental applications, (\$28,500), National Science Foundation, 1992.

A magnetotelluric study of the Arkoma basin, (\$10,000), Mobil Oil Corporation, 1990.