

William M. Andrews, Jr., Ph.D., P.G.
Research Geologist and Section Head (Geologic Mapping)
Kentucky Geological Survey, University of Kentucky; Lexington, Kentucky
Curriculum Vitae, April 2021

Contact Information

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Education

1993, B.S., Geological Sciences, University of Kentucky, Lexington, Ky.
1993–1994, graduate study, Geology, Duke University, Durham, N.C.
1997, M.S., Geological Sciences, University of Kentucky, Lexington, Ky. Thesis title: “Structural Control on the Origin and Nature of the Brassfield Formation (Lower Silurian) West of the Cincinnati Arch, Kentucky”
2004, Ph.D., Geological Sciences, University of Kentucky, Lexington, Ky. Dissertation title: “Geological Controls on Plio-Pleistocene Drainage Evolution of the Kentucky River in Central Kentucky”

Professional Registration

Kentucky Registered Professional Geologist

Employment

■ Head, Geologic Mapping Section, Kentucky Geological Survey, 2008–present

Primary responsibility is oversight of Quaternary mapping and geomorphology projects for USGS StateMap grant, staff support and development, applied geologic mapping projects, three-dimensional geologic mapping, pursuit of additional funding, field mapping and research.

■ Facility and Geologic Manager, Earth Analysis Research Library, Kentucky Geological Survey, July 2018–May 2020

Primary responsibility is physical and administrative reorganization of geologic sample and rock core repository and research center, staff support and development, pursuit of additional funding, public and professional outreach.

■ Manager, Geologic Field Mapping, Kentucky Geological Survey, 2003–2008

Primary responsibility was oversight of Quaternary mapping projects for USGS StateMap grant including management and supervision of project personnel, field mapping.

■ Geologist, Kentucky Geological Survey, 1996–2003

Responsibilities included coal resource assessments, coal borehole data entry and correlation, use of GIS software, support of KGS field projects.

Other professional interests and activities while at KGS include physiography, landforms, soils, and landscapes; fluvial erosion and geomorphology; geologic and geomorphic context of archaeological sites; application of GIS technology and spatial analysis techniques to solve geologic problems; impact of geology on human history and society; communicating geologic information to land-use planners and other nongeologic audiences; historic mineral industries (especially salt, iron and coal).

■ Student Employee, Coal Petrology Lab, Center for Applied Energy Research, 1990–1993

Responsibilities included coal petrology analysis, sample field collection and lab preparation.

Funding/Fiscal Management

2000–2001

- Coal Availability Program (U.S. Geological Survey): \$100,000, PI

2001–2002

- Coal Availability Program (U.S. Geological Survey): \$50,000, PI
- Geomorphic Context of Archaeological Sites, Boone County (Kentucky Archaeological Survey): \$5,000, PI
- 2002–2003
 - Coal Availability Program (U.S. Geological Survey): \$70,000, co-PI
- 2003–2004
 - Coal Availability Program (U.S. Geological Survey): \$35,000, co-PI
 - Surficial Mapping Project manager, StateMap Program (U.S. Geological Survey): \$8,000 (not PI)
- 2004–2005
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$245,000, co-PI
- 2005–2006
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$205,000, co-PI
- 2006–2007
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$197,000, PI
 - Prototype Land-Use Map for Landslides, Landslide Hazards Program (U.S. Geological Survey): \$10,400, PI
- 2007–2008
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$234,000, PI
- 2008–2009
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$215,000, PI
- 2009–2010
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$208, 000, PI
- 2010–2011
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$200,900, PI
 - Paducah Gaseous Diffusion Plant Geologic/Geotechnical Data Entry Project (U.S. Department of Energy/Kentucky Research Consortium for Energy and the Environment): \$16,000, PI
- 2011–2012
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$216, 000, PI
- 2012–2013
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$203,069, PI
- 2013
 - Louisville Engineering Soils Project (University of Louisville/Jefferson County Emergency Management): \$11,328, PI
- 2013–2014
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$187,320, PI
- 2014–2015
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$162,774, PI
 - Prescription for Radon, (Kentucky Department for Public Health): \$54,300, (not PI: co-investigator)
- 2015–2016
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$150,739, PI
 - Prescription for Radon, (Kentucky Department for Public Health): \$18,718, (not PI: co-investigator)
 - Daviess County Seismic Soils Project (Daviess County Fiscal Court): \$5,629, PI
- 2016–2017
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$158,625, PI
- 2017–2020
 - Clean Indoor Air Partnership: Radon (renewing, limited funding) (not PI: co-investigator)
- 2017–2018
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$154,726, co-PI
- 2018–2019
 - Surficial Mapping Project, StateMap Program (U.S. Geological Survey): \$146,639, co-PI
- 2019–2020
 - Data Preservation Project, NGGDPP (U.S. Geological Survey): [\$35,000], co-PI
 - Seismic soils map project, HMGP (FEMA, via GRADD): \$29,139, PI
- 2019–2021
 - Hicks Dome strategic minerals map project, Earth MRI (U.S. Geological Survey): \$75,000, PI/co-PI
- 2020–2021

- StateMap Supplemental geologic map compilation projects, StateMap Program (U.S. Geological Survey): [\$177,658], co-PI
- Pennsylvanian Underclays regional sampling project, Earth MRI (U.S. Geological Survey): \$75,000, PI

Teaching Activities

Adjunct Assistant Professor, Department of Earth and Environmental Sciences, University of Kentucky (adjunct graduate faculty), 2021-2023.

Adjunct Assistant Professor, Department of Geography, University of Kentucky (adjunct graduate faculty), 2006-2019; dissertation committee of D. Udgata (Department of Earth and Environmental Sciences, 2011), dissertation committee of D. Koirala (Dept. of Earth and Environmental Sciences, 2017).

Instructor and coordinator, Review of Practical Geology, workshop for geologists preparing for professional licensure exams, 2000–2005, 2012–present.

Instructor and adjunct faculty, Georgetown College, taught General Geology course for Environmental Science majors and non-major undergraduates, 1997–2000.

Instructor, University of Kentucky, Environmental Geology, May 1996

Instructor, University of Kentucky, Historical Geology and lab, Spring 1995

Teaching Assistant, University of Kentucky, Physical Geology (for education majors), Fall 1995

Professional Organizations

Association of American State Geologists (Associate member, 2020-present)

Geological Society of America (Member-at-Large, Florence Bascom Mapping Award Committee, 2021-2023)

American Geophysical Union

Kentucky Society of Professional Geologists/Geological Society of Kentucky

Kentucky Association of Mapping Professionals (Board of Directors, 2019 – 2020; president-elect, 2021)

Professional Outreach

USGS National Geologic Map Database, Technical Advisory Committee; 2018-present.

USGS National Cooperative Geologic Mapping Program, Decadal Planning Workgroup, 2016; supplemental funding implementation workshop, 2020; Geoframework Initiative implementation planning workshop, 2021.

Association of American State Geologists, Washington DC liaison team, 2016, 2020.

Governor’s Geographic Information Advisory Council (GIAC); Sept 2009–2013

GIAC Strategic Planning Committee, Chair; July 2010–2013; September 2015–2016

Invited technical partner; 2014–2016

Presented multiple years at Kentucky Association of Mitigation Managers, Appalachian Geohazards in Transportation, Digital Mapping Techniques, Falls of the Ohio, KGS Annual Meeting.

Campus Engagement

Parent Advisory Council, UK Lewis Honors College (2021-)

Alumni Mentor, UK Lewis Honors College (2020-2021)

Staff advisor, UK Men’s Club Volleyball team (2013–2021)

UK Campus Security Authority (2013–2021)

Invited speaker, UK Honors Program reunion events (2011–2013)

UK DanceBlue supporter and clinic parent (2010–present, Employee Dance Party 2018-present)

Publications

Reviewed Publications

Haneberg, W.C., Wiggins, A., Curl, D.C., Greb, S.F., Andrews, W.M. Jr., Radmacher, K., Rayens, M.K., and Hahn, E.J., 2020, A geologically based indoor-radon potential map of Kentucky. *GeoHealth*, v4, n11, e2020GH000263. <https://doi.org/10.1029/2020GH000263>

Chiavacci, S.J., Shapiro, C.D., Pindilli, E.J., Casey, C.F., Rayens, M.K., Wiggins, A.T., Andrews, W.M., and Hahn, E.J., 2020, Economic benefits of using geologic data to communicate radon risk potential: *Environmental Health*, v. 19, paper 36. <https://doi.org/10.1186/s12940-020-00589-8>.

- Overfield, B.L., Andrews, W.A., Jr., Robertson, H., Rayens, M.K., and Hahn, E.J., 2016, Radon research collaboration between the Kentucky Geological Survey and the University of Kentucky College of Nursing: An innovative partnership: Geological Society of America Special Paper 520, p. 267–271.
- Hahn, E.J., Gokun, Y., Andrews, W.M., Jr., Overfield, B.L., Robertson, H., Wiggins, A., and Rayens, M.K., 2015, Radon potential, geologic formations, and lung cancer risk: Preventive Medicine Reports, v. 2, p. 342–346.
- Ettensohn, F.R., Lierman, R.T., Mason, C.E., Andrews, W.M., Jr., Hendricks, T., Phelps, D.J., and Gordon, L.A., 2013, The Silurian of central Kentucky, U.S.A.—Stratigraphy, paleoenvironments and paleoecology, in Laurie, J.R., ed., Siluro-Devonian studies II: Memoirs of the Australasian Palaeontologists, v. 44, p. 159–189.
- Phillips, J.D., Martin, L.L., Nordberg, V.G., and Andrews, W.M., 2004, Divergent evolution in fluvio-karst landscapes of central Kentucky: Earth Surface Processes and Landforms, v. 29, p. 799–819.
- Grebe, S.F., Andrews, W.M., Eble, C.F., DiMichele, W., Cecil, C.B., and Hower, J.C., 2003, Desmoinesian coal beds of the Eastern Interior and surrounding basins: The largest tropical peat mires in earth history, in Chan, M.A., and Archer, A.W., eds., Extreme depositional environments: Mega-end members in geologic time: Geological Society of America Special Publication 370, p. 127–150.
- Ruthven, C.L., Kiefer, J.D., Grebe, S.F., and Andrews, W.M., Jr., 2003, Geologic maps and geologic issues in Kentucky; A citizen's guide: Kentucky Geological Survey, ser. 12, Special Publication 3, 27 p.
- Ehlen, J., Abraham, R.J., and Andrews, W.M., 2003, Field artillery and terrain in the American Civil War: The Battle of Perryville, October 8, 1862: Proceedings, the International Conference on Military Geography and Geology, extended abstract with figures on CD-ROM.
- Grebe, S.F., Eble, C.F., Hower, J.C., and Andrews, W.M., 2002, Multiple-bench architecture and interactions of original mire phases—Examples from the Middle Pennsylvanian of the central Appalachian Basin, USA: International Journal of Coal Geology, v. 49, p. 147–175.
- Grebe, S.F., Chesnut, D.R., Jr., Dever, G.R., Jr., Harris, D.C., Ettensohn, F.R., Mason, C.E., Andrews, W.M., Howell, P.D., Eble, C.F., Caudill, M.R., Houck, K.J., and Nelson, W.J., 2002, Pound Gap—A new reference section for Mississippian strata on Pine Mountain, central Appalachian Basin, U.S.A., in Hills, L.V., Henderson, C.M., and Bamber, E.W., eds., Carboniferous and Permian of the world: Canadian Society of Petroleum Geologists, Memoir 19, p. 696–709.
- Hatch, J.R., Connolly, C.L., Treworgy, C.G., Andrews, W.M., Weisenfluh, G.A., and Affolter, R.H., 2002, Remaining resources of the Springfield, Herrin, Danville, and Baker coals; in Hatch, J.R., and Affolter, R.H., eds., Resource assessment of the Springfield, Herrin, Danville, and Baker coals in the Illinois Basin: U.S. Geological Survey Professional Paper 1625-D, p. 17–28.
- Hatch, J., Jacobson, R., Mastalerz, M., Andrews, W., Weisenfluh, J., Affolter, R., and Gunther, G., 2002, Resource assessment of the Springfield, Herrin, Danville, and Baker coals in the Illinois Basin: U.S. Geological Survey Fact Sheet 0072-02, 4 p.
- Woods, A.J., Omernik, J.M., Martin, W.H., Pond, G.J., Andrews, W.M., Call, S.M., Comstock, J.A., and Taylor, D.D., 2002, Ecoregions of Kentucky (color poster with map, descriptive text, summary tables, and photographs): U.S. Geological Survey, color poster with map, scale 1:1,000,000.
- Weisenfluh, G.A., Andrews, W.M., and Hiatt, J.K., 2001, Coal availability in western Kentucky: Kentucky Geological Survey, ser. 12, Report of Investigations 8, 29 p.
- Andrews, W.M., Andrews, R.E., and Hiatt, J.K., 2000, Coal resources of the Springfield coal bed in western Kentucky: Kentucky Geological Survey, ser. 12, Map and Chart 10, 1 sheet.
- Andrews, W.M., Grebe, S.F., and Andrews, R.E., 2000, Structure and overburden of the Springfield coal bed in western Kentucky: Kentucky Geological Survey, ser. 12, Map and Chart 11, 1 sheet.
- Andrews, W.M., Sweet, M., and Woolery, E., 2000, Review of practical geology: Kentucky Society of Professional Geologists workshop course notebook, 120 p.
- Thacker, E.E., Weisenfluh, G.A., Andrews, W.M., Jr., and Hiatt, J.K., 2000, Coal resources of the Lower Elkhorn coal bed in eastern Kentucky: Kentucky Geological Survey, ser. 12, Map and Chart 2, 1 sheet.
- Eble, C.F., Hower, J.C., and Andrews, W.M., Jr., 1999, Compositional variations in the Fire Clay coal bed of eastern Kentucky—Geochemistry, petrography, palynology, and paleoecology: Kentucky Geological Survey, ser. 11, Report of Investigations 14, 26 p.
- Anderson, W.H., and Dever, G.R., Jr., eds., with contributions by B.C. Nuttall, G.A. Weisenfluh, T.D. Hounshell, W.M. Andrews Jr., and J.R. Hiatt, 1998, Mineral and fuel resources map of Kentucky: Kentucky Geological Survey, ser. 11, Map and Chart 21, 1 sheet.
- Thacker, E.E., Weisenfluh, G.A., and Andrews, W.M., Jr., 1998, Total coal thickness of the Lower Elkhorn coal in eastern Kentucky: Kentucky Geological Survey, ser. 11, Map and Chart 20, 1 sheet.

- Hower, J.C., Kuehn, K.W., Parekh, B.K., and Andrews, W.M., Jr., 1997, Maceral and microlithotype response to oil agglomeration for selected eastern Kentucky high volatile A bituminous coals: *Fuel Processing Technology*, v. 50, p. 185–198.
- Andrews, W.M., Hower, J.C., Eble, C.F., Ferm, J.C., Evans, S.D., Sirek, N.S., and Warrell, M.J., 1996, A depositional model for the Taylor coal bed, Martin and Johnson counties, eastern Kentucky, *in* Hower, J.C., and Eble, C.F., eds., *Geology and petrology of Appalachian coals (special issue): International Journal of Coal Geology*, v. 31, p. 151–167.
- Andrews, W.M., Hower, J.C., and Hiatt, J.K., 1994, Lithologic and geochemical investigations of the Fire Clay coal bed, southeastern Kentucky, in the vicinity of sandstone washouts: *International Journal of Coal Geology*, v. 26, p. 95–115.
- Eble, C.F., Hower, J.C., and Andrews, W.M., Jr., 1994, Paleocology of the Fire Clay coal bed in a portion of the Eastern Kentucky Coal Field: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 106, p. 287–305.
- Hower, J.C., Andrews, W.M., Jr., Wild, G.D., Eble, C.F., Dulong, F.T., and Salter, T.L., 1994, Quality of the Fire Clay coal bed, southeastern Kentucky: *Journal of Coal Quality*, v. 13, no. 1, p. 13–26.

Geologic Maps

- Massey, M.A., Martin, S.L., Waninger, S., and Andrews, W., Jr., 2017, Surficial geologic map of the Crestwood 7.5-minute quadrangle, north-central Kentucky: Kentucky Geological Survey, ser. 13, Contract Report 3, scale 1:24,000.
- Andrews, W.M., Jr., 2015, Quaternary geologic map of the Jeffersontown 7.5-minute quadrangle, north-central Kentucky: Kentucky Geological Survey, ser. 12, Contract Report, scale 1:24,000.
- Andrews, W.M., Jr., 2015, Quaternary geologic map of the Mount Washington 7.5-minute quadrangle, north-central Kentucky: Kentucky Geological Survey, ser. 12, Contract Report, scale 1:24,000.
- Andrews, W.M., Jr., 2014, Quaternary geologic map of the Anchorage 7.5-minute quadrangle, north-central Kentucky: Kentucky Geological Survey, ser. 12, Contract Report, scale 1:24,000.
- Andrews, W.M., Jr., 2014, Surficial geologic map of the Georgetown 7.5-minute quadrangle, north-central Kentucky: Kentucky Geological Survey, ser. 12, Contract Report, scale 1:24,000.
- Crawford, M.M., Andrews, W.M., Jr., and Thompson, M.F., 2010, Quaternary geologic map of the Delaware 7.5-minute quadrangle, western Kentucky: Kentucky Geological Survey, ser. 12, Geologic Map 25, scale 1:24,000.
- Moore, D.W., Lundstrom, S.C., Counts, R.C., Martin, S.L., Andrews, W.M., Jr., Newell, W.L., Murphy, M.L., Thompson, M.F., Taylor, E.M., Kvale, E.P., and Brandt, T.R., 2009, Surficial geologic map of the Evansville, Indiana, and Henderson, Kentucky, area: U.S. Geological Survey Scientific Investigations Map 3069, scale 1:50,000, 21-p. pamphlet, <http://pubs.usgs.gov/sim/3069> [accessed 10/23/2014].
- Andrews, W.M., Jr., 2008, Quaternary geologic map of the Hazard North 7.5-minute quadrangle, eastern Kentucky: Kentucky Geological Survey, ser. 12, Contract Report 26, scale 1:24,000.
- Andrews, W.M., Jr., 2007, Quaternary geologic map of the Curdsville 7.5-minute quadrangle, western Kentucky: Kentucky Geological Survey, ser. 12, Contract Report 18, scale 1:24,000.
- Andrews, W.M., Jr., 2006, Quaternary geologic map of the Owensboro West 7.5-minute quadrangle, western Kentucky: Kentucky Geological Survey, ser. 12, Contract Report 12, scale 1:24,000.
- Murphy, M.L., Thompson, M.F., and Andrews, W.M., Jr., 2006, Quaternary geologic map of the Spottsville quadrangle and part of the Newburgh quadrangle, Henderson and Daviess Counties, western Kentucky: Kentucky Geological Survey, ser. 12, Contract Report 16, scale 1:24,000.
- Thompson, M.F., Murphy, M.L., and Andrews, W.M., Jr., 2006, Quaternary geologic map of parts of the Yankeetown and Reed 7.5-minute quadrangles, western Kentucky: Kentucky Geological Survey, ser. 12, Contract Report 17, scale 1:24,000.
- Andrews, W.M., Jr., 2005, Quaternary geologic map of part of the Owensboro East 7.5-minute quadrangle, western Kentucky: Kentucky Geological Survey, ser. 12, Contract Report 7, scale 1:24,000.
- Counts, R.C., Martin, S.L., and Andrews, W.M., Jr., 2004, Quaternary geologic map of the Henderson area, Henderson County, Kentucky (Kentucky portions of the Evansville South, Henderson, West Franklin, and Wilson quadrangles): Kentucky Geological Survey, ser. 12, Contract Report 6, scale 1:24,000.

Field Trip Guidebooks

- Massey, M.A., Andrews, W., Martin, S.L., Hammond, M., III, and Bottoms, A.E., 2018, Significance of Pleistocene fluvial systems and glaciations on the landscape evolution of northern Kentucky, *in* Florea, L.J., ed.,

- Ancient orogens, orogenic uplifts, and glacial ice: geologic crossroads in America's heartland: Geological Society of America Field Guide 51, p. 165-180.
- Andrews, W.M., Jr., Mason, C., Hammond, M., and Smath, R., 2014, Surficial geology and mass movement in the Morehead area, Kentucky: Geological Society of Kentucky Field Trip Guidebook, October 25, 13 p.
- Andrews, W.M., Jr., 2014, Geology and the Civil War in central Kentucky—Perryville and Camp Nelson: Association of Earth Science Editors, 48th Annual Meeting, Field Trip Guidebook, October 10, 14 p.
- Andrews, W.M., Jr., 2014, Camp Nelson Civil War Heritage Park and vicinity—Making an impact on education, transportation, and human history: Association of American State Geologists, Guidebook for Pre-meeting Field Trip, June 10, 10 p.
- Andrews, W.M., Jr., Greb, S.F., Crawford, M.M., Earle, D., Eble, C.F., and Hickman, J., 2014, Cumberland Gap and Middlesboro—Making an impact on education, transportation, and human history: Association of American State Geologists, Guidebook for Pre-meeting Field Trip, June 8, 18 p.
- Andrews, W.M., and Thompson, M.F., 2012, The Jephtha Knob cryptoexplosive structure, Shelby County, Kentucky, *in* Smath, R., compiler, Council of Examiners Workshop Field Trip—April 15, 2012: Kentucky Board of Registration for Professional Geologists and Kentucky Geological Survey, 70 p.
- Andrews, W.M., Jr., and Martin, S.L., 2011, Field trip guidebook for the 62nd Highway Geology Symposium: Highway Geology Symposium, 26 p.
- Greb, S.F., Andrews, W.M., Jr., and Smath, R.A., 2006, Geology and geomorphology of the Breaks Interstate Park area: Guidebook for Joint Field Conference of the Kentucky Society of Professional Geologists and the Kentucky Section of the American Institute of Professional Geologists, 57 p.
- Andrews, W.M., Jr., Martin, S.L., Counts, R.C., Beck, E.G., Nuttall, B.C., Durbin, J.M., Waninger, S.E., Lutz, J.D., and Henn, K.E., 2006, Geomorphology and Quaternary geology of the lower Ohio River Valley—Mapping and applications: Guidebook for joint field trip of the Kentucky Society of Professional Geologists and the Kentucky Section of the American Institute of Professional Geologists, 57 p.
- Andrews, W.M., Jr., 2005, Geology and the Civil War in central Kentucky—Camp Nelson: Field Trip Guidebook, American Institute of Professional Geologists Annual Meeting, 25 p.
- Andrews, W.M., Jr., Bullard, R., and Rockaway, J., 2005, Geology of northern Kentucky and the Ohio River Valley: Field Trip Guidebook, Kentucky Section of the American Institute of Professional Geologists, 15 p.
- Kuehn, K.W., Milam, K.A., Smath, M.L., Algeo, K., Andrews, W.M., and Greb, S.F., 2003, Geologic impacts on the history and development of Middlesboro, Kentucky: Kentucky Society of Professional Geologists Annual Field Trip Guidebook, September 18–20, 52 p.
- Andrews, W.M., Crawford, M.M., and Hickman, J.B., 2002, Influence of geology on the military and cultural history of the Bluegrass Region, Kentucky, *in* Ettensohn, F.R., and Smath, M.L., eds., Guidebook for geology field trips in Kentucky and adjacent areas: Geological Society of America/University of Kentucky, p. 108–128.
- Andrews, W.M., Ettensohn, F.R., Gooding, P.J., and Smath, M.L., 2002, Impact of geology on human history at Camp Nelson and Perryville, central Kentucky: Kentucky Society of Professional Geologists Annual Field Trip Guidebook, September 19–21, 112 p.
- Nuttall, B.C., Andrews, W.M., Haney, D.C., Harris, D.C., and Wells, D., 2001, Historic oil fields of eastern Kentucky and Big Andy Ridge: Kentucky Society of Professional Geologists Annual Field Trip Guidebook, September 13–15, 36 p.
- Andrews, W.M., 2000, Influence of geology on the history of central Kentucky: National Speleological Society Convention Guidebook, p. 111–125.
- Eble, C.F., Greb, S.F., and Dever, G.R., Jr., eds., 1998, Geology of the Pound Gap roadcut, Letcher County, Kentucky: Field Trip Guidebook for Annual Field Conference of the Kentucky Society of Professional Geologists, September 25–26, 169 p. (Contributed to three field trip stops and two invited papers.)

Virtual Field Trips/Interactive Tours

- Andrews, W.M., and Curl, D.C., 2020, Camp Nelson National Monument—A Geologic Story: Kentucky Geological Survey, ser. 13, Interactive Tour IT-5. <https://kgs.uky.edu/storymaps/campnelson>

Contract Reports

- Andrews, W.M., 2016, Final report for Daviess County Soils Project: contract report to Daviess County Fiscal Court, May 2016.

Digital Data

- Andrews, W.M., Jr., 2014, Digital maps of geologic materials for use in HAZUS loss estimation software: Kentucky Geological Survey, ser. 12, contract deliverable for Louisville Engineering Soils Project, 7 digital layer files in ESRI format.
- Andrews, W.M., Jr., Patton, J.A., Clark, L., Hesley, J., and Lambert, J.R., 2006, Spatial database of the Booneville quadrangle, Owsley and Lee Counties, Kentucky: Kentucky Geological Survey, ser. 12, Digitally Vectorized Geologic Quadrangle DVGQ-1479. Adapted from Weir, G.W., 1975, Geologic map of the Booneville quadrangle, Owsley and Lee Counties, Kentucky: U.S. Geological Survey Geologic Quadrangle Map GQ-1479, scale 1:24,000.
- Thompson, M.F., Toth, K.S., Mullins, J.E., and Andrews, W.M., Jr., 2006, Spatial database of the Cromwell quadrangle, Butler and Ohio Counties, Kentucky: Kentucky Geological Survey, ser. 12, Digitally Vectorized Geologic Quadrangle DVGQ-1250. Adapted from Gildersleeve, B., 1975, Geologic map of the Cromwell quadrangle, Butler and Ohio Counties, Kentucky: U.S. Geological Survey Geologic Quadrangle Map GQ-1250, scale 1:24,000.
- Toth, K.S., Thompson M.F., and Andrews, W.M., Jr., 2006, Spatial database of the Horton quadrangle, Ohio County, Kentucky: Kentucky Geological Survey, ser. 12, Digitally Vectorized Geologic Quadrangle DVGQ-915. Adapted from Johnson, W.D., 1971, Geologic map of the Horton quadrangle, Ohio County, Kentucky: U.S. Geological Survey Geologic Quadrangle Map GQ-915, scale 1:24,000.
- Andrews, W.M., Jr., Patton, J.A., Hesley, J., and Lambert, J.R., 2005, Spatial database of the Hazard South quadrangle, Kentucky: Kentucky Geological Survey, ser. 12, Digitally Vectorized Geologic Quadrangle DVGQ-343. Adapted from Puffett, W.P., 1964, Geology of the Hazard South quadrangle, Kentucky: U.S. Geological Survey Geologic Quadrangle Map GQ-343, scale 1:24,000.
- Andrews, W.M., Jr., Patton, J.A., Hesley, J., and Lambert, J.R., 2005, Spatial database of the Noble quadrangle, Kentucky: Kentucky Geological Survey, ser. 12, Digitally Vectorized Geologic Quadrangle DVGQ-1476. Adapted from Hinrichs, E.N., 1978, Geologic map of the Noble quadrangle, eastern Kentucky: U.S. Geological Survey Geologic Quadrangle Map GQ-1476, scale 1:24,000.

Dissertation

- Andrews, W.M., 2004, Geological controls on Plio-Pleistocene drainage evolution of the Kentucky River in central Kentucky: University of Kentucky, doctoral dissertation, 222 p. <http://www.uky.edu/ETD> [accessed 10/23/2014]; also available as Andrews, W.M., Jr., 2006, Geologic controls on Plio-Pleistocene drainage evolution of the Kentucky River in central Kentucky: Kentucky Geological Survey, ser. 12, Thesis Series 4, 216 p.

Thesis

- Andrews, W.M., 1997, Structural control on the origin and nature of the Brassfield Formation (Lower Silurian) west of the Cincinnati Arch, Kentucky: University of Kentucky, Masters thesis, 120 p.

Abstracts

- Andrews, W.M., 2020, Foundations of value for Kentucky geologic maps (abstract): Geological Society of America Abstracts with Programs. Vol 52, No. 6, doi: <https://10.1130/abs/2020AM-357326>
- Andrews, W.M., and Lukoczki, G., 2020, Earth MRI activities at the Kentucky Geological Survey (abstract): Geological Society of America Abstracts with Programs. Vol. 52, No. 2., doi: <https://10.1130/abs/2020SE-345374> .
- Andrews, W.M., Hickman, J.B., and Curl, D.C., 2020, Statewide three-dimensional database and model at the Kentucky Geological Survey (abstract): Geological Society of America Abstracts with Programs. Vol. 52, No. 2, doi: <https://10.1130/abs/2020SE-345369>
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