**David Aaron Grimley**

***Curriculum Vitae***

**CURRENT POSITION:**

 Quaternary Geologist (Associate Geologist)

 Illinois State Geological Survey (ISGS)

 Prairie Research Institute, University of Illinois

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 (217)-244-7324 dgrimley@illinois.edu

**EDUCATION:**

 Ph.D., Geology, 1996, University of Illinois at Urbana-Champaign

 *Dissertation title*: " Stratigraphy, magnetic susceptibility, and mineralogy of loess-paleosol

 sequences in southwestern Illinois and eastern Missouri" [advisors, W.H. Johnson, L.R. Follmer]

 A.B., Astrogeophysics, 1988, Colgate University, Hamilton, NY

**PROFESSIONAL EXPERIENCE:**

 **Quaternary Geologist:** (Illinois State Geological Survey; 1995-present):

Mapping Experience

**-** Quaternary geology of Carroll County, IL (1:62,500) to aid land-use planning (1996)

- surficial geology of several quadrangles in Kane County, IL at 1:24,000 (1995-2000)

- surficial geology and bedrock topography for more than 22 quadrangles (1:24,000) in southwestern IL (1997-2014)

- Quaternary geology compilations and cross sections for Madison (2006) and St. Clair (2011) counties

- compiled maps of bedrock surface topography and unconsolidated sediment thickness for a 32 quadrangle area (3 to 4 counties) in southwestern Illinois; used for seismic hazard analysis

- provided regional framework for groundwater, engineering and land-use issues

- provide advice and insights to consultants and educators, related to Illinois’ Quaternary sediment record

Research Experience

- origin of glacial landforms and Illinois Episode glacial history in southern Illinois

- environment, source, and age of lacustrine and loessal silts in SW Illinois

- stratigraphy and provenance of Illinois and pre-Illinois Episode glacial deposits in central Midwest

- Quaternary molluscan fauna and their use in paleoecology, paleoclimate, and amino acid geochronology

- geological context of fossil mammoth site near Elsah, IL

- delineation of wetland soils (in Midwestern USA) more precisely through use of soil magnetic susceptibility (MS); association of soil MS with flood tolerance of native plant species

Teaching Experience

- instructor for course at Osher Lifelong Learning Institute; “Illinois’ glacial landscapes, deposits, and history; its societal relevance” (2014)

- co-instructor for NRES 285 Field Experience; “East-central Illinois glacial landscapes and implications to society/ecology” (University of Illinois, Spring 2011, 2012, 2013)

- co-instructor for Geology 497-C1; Illinois Quaternary History, Landscapes and Glacial Processes (University of Illinois, Fall 2009)

- led 2 field trip classes for Geology 401; Geomorphology (University of Illinois, Spring, 2008)

- co-led Quaternary field trip for geology students from Depauw University, IN (2007)

Project Management / Leadership Experience

- led Midwest Friends of the Pleistocene field trip and conference to Kaskaskia Basin region (2011)

- Principal Investigator for the Illinois USGS-STATEMAP proposal (2013-2014)

- co-PI for the Illinois USGS-STATEMAP proposal; in charge of compiling Quaternary/surficial geology projects for proposal submission (2011-2012)

- project leader for St. Louis Metro East region mapping in southwestern Illinois (2004-2012); including surficial geologic mapping, bedrock surface topography, supplemental laboratory data for characterizing map units, and stratigraphic correlations

- co-leader of two North-Central GSA field trips (Kane County, 1999; St. Louis Metro region, 2001)

 **Graduate Student Assistant:** (Illinois State Geological Survey):

- extent and character of oil production from Cypress Formation in SE Illinois (1991)

- Quaternary mapping, aquifer thickness mapping, and electrical resistivity surveys in NE Illinois (1994-95)

 **Teaching Assistant (Lab Instructor)**:

- University of Illinois, Department of Geology, 1989-94:

Geomorphology 301 (Prof. W. H. Johnson, 5 sem.); Geology for Engineers 250 (Prof. A. Nieto, 4 sem.); The Dynamic Earth and Society 142 (1 sem.); Physical Geology 101 (4 sem.)

- Undergraduate Teaching Assistant in Astronomy: (Colgate University, Dr. T. Balonek, 1985-88)

 **Field Groundwater Geologist**: (HydroGeoLogic, Inc. [Herndon, Virginia], summer 1989):

- monitored hydrocarbon plumes, described sediment cores, assisted with groundwater flow models

 **Research Assistant in Geophysics**: (University of Illinois, Dept. of Geology, Dr. A. Hsui, 1988-89):

- devised FORTRAN program to correct for global horizontal mass anomalies on vertical deviation of gravity in boreholes

**OTHER PROFESSIONAL ACTIVITIES:**

**Service And Invitations:**

- invited paper at GSA (2011) in honor of Jim Knox career

- leader of Midwest Friends of the Pleistocene field trip (2011), along with A.C. Phillips and other contributors, highlighting the Quaternary geology of the Kaskaskia Basin in southwestern Illinois

- invited lecturer at Southern Illinois University (2008) and University of Illinois - Chicago (2009)

- served as a geology instructor and board member for "Master Naturalist program - east-central Illinois region" (2005-2007)

- invited paper at sessions "Geological development of the Mississippi River" (NC-GSA, 2005) and "Sedimentology and stratigraphy of glacial deposits" (NC-GSA, 2009)

- co-chair of theme session "Quaternary mapping applied to hydrogeologic and environmental issues" (NC-GSA, 2004)

- invited lecturer on Quaternary stratigraphy of fossil mammoth site (Principia College, 2002-05)

**-** principal leader of field trip of Quaternary Geology of St. Louis Metro East (NC-GSA, 2001)

- co-leader of Kane County Quaternary Geology field trip (NC-GSA, 1999)

- led field trip stops (Tri-State Conference, 2000; Midwest Friends of the Pleistocene, 1991, 1995)

- served on 3 search committees and reviewed numerous scientific manuscripts and proposals

**Student Thesis Committees:**

- Johanna Gemperline (M.S., 2013, University of Illinois, Geology Dept.); *served as committee member and research advisor*

- Andrew Ostendorf (B.S., 2010, University of Illinois, Geology Dept.), senior undergraduate thesis, Geologic origin of Baldwin Ridge in southwestern Illinois.

- Doug Kolb (M.S., 2009, SIU, Geology Dept.), Surficial Geology of Evansville Quadrangle, IL

- Amanda Peters (B.S., 2009, University of Illinois, Geology Dept.), senior undergraduate thesis, terrestrial gastropods record in western Kentucky last glacial loess-paleosol sequence

- Nathan Webb (M.S., 2009, University of Illinois, Geology Dept.), "An investigation of the origin of the Ridged-drift of the lower Kaskaskia Basin, southwestern Illinois"; *served as principal research advisor*

- Elizabeth Geiger (M.S., 2008, SIU, Geology Dept.), served as co-advisor for research involving gastropod fauna in Pleistocene deposits of southwestern Illinois.

- Jing-shu Wang (M.S., 2005, University of Illinois, NRES Dept.), "Amino-sugar nitrogen and magnetic susceptibility as proxies for tree interactions with soil"

- Nancy Arruda (M.S., 2003, University of Illinois, NRES Dept.) "Using magnetic susceptibility for delineating hydric soils: evidence for magnetic particle dissolution", *served as principal research advisor*

**Other Student Supervision and Outreach**:

- supervised, trained, or co-authored publications with 20+ undergraduate and graduate students

- supervised student research for U of I College of ACES research apprenticeship program for minority students (2002, 2003)

- assisted with public field trips, presentations, and outreach with local teachers and students

- devised Geologic Roadmap of Illinois (2001) for use by the general public

- tutored physics and mathematics for minority and underprivileged students (Univ. of IL, 1988-89)

**PROFESSIONAL DEVELOPMENT:**

- Kepner-Tregoe 3-day Project Management Workshop (2012)

- Microsoft Access Fast-3 short course at University of Illinois (2012)

- ArcGIS spatial analyst tutorial (ESRI On-line Course, 2004)

- migrating from ArcView 3.2 to ArcView 8.2 (ILGISA Workshop, April 2003)

- RockWorks short course training (May 2002)

- GPS project start to finish, (AMQUA Short Course, May 2000)

**PROFESSIONAL MEMBERSHIP:**

- Sigma Xi

- Midwest Friends of the Pleistocene

- American Quaternary Association

- Geological Society of America (Quaternary and Geomorphology Division)

**FELLOWSHIPS AND AWARDS:**

**-** Special Achievement by a Team (STATEMAP Team, Illinois State Geological Survey, 2012)

- Graduate Study Committee Award, Department of Geology (University of Illinois, 1993)

- Visiting Fellowship, Institute for Rock Magnetism (University of Minnesota, 1992)

- Morris M. and Ada B. Leighton Award for thesis research (ISGS, 1991)

- Summer Research Assistant Fellowship in Astronomy (Colgate University, Dr. T. Balonek, 1987)

**GRANTS AND CONTRACTS RECEIVED:**

- USGS-STATEMAP (PI); "The Illinois STATEMAP Geologic Mapping Proposal", $194,565 and $182,107 [2013, 2014].

- USGS-STATEMAP (co-PI); "The Illinois STATEMAP Geologic Mapping Proposal", served as PI for St. Louis Metro East sub-project. Yearly funding of $200,000 to $253,000 [2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012].

- "Drilling and Electrical Resistivity Surveys for Shakespeare Oil Company in Southwestern Illinois" (2006; $40,000)

- University of Illinois Research Board Grant, "Using magnetic susceptibility to aid with delineation of hydric (wetland) soils in the central Midwest" (2001; $18,400)

- Graduate College Dissertation Research Grant, University of Illinois (1993)

- Graduate College Thesis/Project Grant, University of Illinois (1993)

- Geological Society of America Research Grant (1992)

- Sigma Xi Grants-in-Aid of Research (1992)

**PUBLICATIONS:**

**Journal articles and book chapters:**

Webb ND, **Grimley DA**, Phillips AC, and BW Fouke. 2012. Origin of glacial ridges (OIS 6) in the Kaskaskia Sublobe, southwestern Illinois, USA. Quaternary Research 78: 341-352.

Curry BB, **Grimley DA,** and ED McKay III, 2011, Quaternary Glaciations in Illinois. In J. Ehlers, P.L. Gibbard and P.D. Hughes, editors: *Developments in Quaternary Science*, v. 15, Elsevier, Amsterdam, The Netherlands, pp. 467-487.

Rech JA, Pigati JS, Lehmann SB, Mcgimpsey CN, **Grimley DA**, Nekola JC, 2011. Assessing open-system behavior of 14C in terrestrial gastropod shells. *Radiocarbon* 53: 325–335.

Saunders JJ, Grimm EC, Widga CC, Campbell GD, Curry BB, **Grimley DA**, Hanson PR, McCullum JP, Oliver JS, Treworgy JD. 2010. Paradigms and proboscideans in the southern Great Lakes region, USA. *Quaternary International* 217: 175-187.

Wilson MA, Indorante SJ, Lee BD, Follmer LR,, Williams DR, Fitch BC, McCauley, WM, Bathgate JD, **Grimley**, **DA**, Kleinschmidt, K. 2010. Location and expression of fragic soil properties in a loess-covered landscape, Southern Illinois, USA, *Geoderma* 154: 529-543.

**Grimle**y **DA**, Larsen D, Kaplan SW, Yansa CH, Curry BB, and EA Oches. 2009. A multi-proxy palaeoecological and palaeoclimatic record within full glacial lacustrine deposits, western Tennessee, USA. *Journal of Quaternary Science* 24: 260-981.

O’ Brien, SL, Jastrow, JD, **Grimley, DA**, and Gonzalez-Meler, MA. 2009. Moisture and vegetation controls on decadal-scale accrual of soil organic carbon and total nitrogen in restored grasslands. *Global Change Biology.* doi: 10.1111/j.1365-2486.2009.02114.x

Wang, H., Lundstrom CC, Zhang Z, **Grimley DA**, Balsam WL. 2009. A mid–late Quaternary loess–paleosol record in Simmons Farm in southern Illinois, USA. *Quaternary Science Reviews* 28: 93-106.

**Grimley DA**, Wang J-S., Liebert DA, and JO Dawson. 2008. Soil magnetic susceptibility: a quantitative proxy of soil drainage for use in ecological restoration, *Restoration Ecology* 16: 657-667.

Wang, J-S, **Grimley DA**, Chonggang X, Dawson, JO, 2008, Soil magnetic susceptibility reflects soil moisture regimes and the adaptability of tree species to these regimes. *Forest Ecology and Management* 255: 1664-1673.

**Grimley DA,** and NK Arruda. 2007. Observations of magnetite dissolution in poorly drained soils, *Soil Science* 172: 968-982.

Treworgy JD, Saunders JJ, and **DA Grimley**, 2007, Mammoth (Mammuthus sp.) excavation on a college campus in Western Illinois, USA, *Quaternary International* 169-170: 24-28.

Dawson JO and **DA Grimley,**  2006/2007.  Ancient Illinois forests:  200,000 years of climate change. *The Illinois Steward Winter Issue* 15: 18-24

Curry BB and **DA Grimley**, 2006. Provenance, age, and environment of mid-Wisconsin Episode slackwater lake sediment in the St. Louis Metro East area, U.S.A., *Quaternary Research* 65: 108 -122.

**Grimley DA**, Arruda, NK, and MW Bramstedt, 2004. Using magnetic susceptibility to facilitate more rapid, reproducible, and precise delineation of hydric soils in the Midwestern USA, *Catena* 58: 183-213.

**Grimley DA**, Follmer LR, Hughes RE, and PA Solheid, 2003. Modern, Sangamon, and Yarmouth soil development in loess of unglaciated southwestern Illinois, *Quaternary Science Reviews* 22: 225-244.

**Grimley DA**, and MJ Vepraskas, 2000. Utilization of magnetic susceptibility for delineating hydric soils, *Soil* *Science Society of America Journal* 64: 2174-2180.

**Grimley DA**, 2000. Glacial and nonglacial sediment contributions to Wisconsin Episode loess in the central United States, *Bulletin Geological Society of America* 112: 1475-1495.

**Grimley DA**, 1998. Pedogenic influences on magnetic susceptibility patterns in loess-paleosol sequences of southwestern Illinois, in (L.R. Follmer, D.L. Johnson, and J.A. Catt, ed.) Revisitation of Concepts in Paleopedology: Transactions of the Second International Symposium on Paleopedology, *Quaternary International* 51/52: 51.

**Grimley DA**, Follmer LR, and ED McKay, III, 1998. Magnetic susceptibility and mineral zonations controlled by provenance in loess along the Illinois and Central Mississippi Valleys, *Quaternary Research* 49: 24-36.

**Grimley, D.A.**, 1997, Wind blown sediments in the Quaternary record (Book Review), *Journal of Geoscience Education* 45: 86.

**Field Guides:**

**Grimley DA** and Phillips AC, editors. 2011b. Ridges, Mounds, and Valleys: Glacial-Interglacial History of the Kaskaskia Basin, Southwestern Illinois, 55th Midwest Friends of the Pleistocene Field Conference, Illinois State Geological Survey Open File Series 2011-1, 144 p.

Fox, N., Thomason, J., Curry, BB, and **DA Grimley**, 2008. Stop 2b, Wedron Silica Company, Sedimentological and paleontological evidence for evolving lacustrine environements prior to the last glaciation, Wedron Southeast Section. in (B.B. Curry, ed.) Deglacial History and Paleoenvironments of Northeastern Illinois. 38th Field Conference of the Midwest Friends of the Pleistocene, Illinois State Geological Survey Open File Series 2008-1, p. 73-78.

**Grimley DA**, Phillips AC, Follmer LR, Wang H, and RS Nelson, 2001. Quaternary and environmental geology of the St. Louis Metro East area, in (David Malone, ed.) Guidebook for Field Trip for the 35th Annual Meeting of the North-Central Section of the Geological Society of America, Illinois State Geological Survey Guidebook 33, p. 21-73.

**Grimley DA**, 2000. Quaternary Geology of the St. Louis Metro East Area, in (R.D. Norby and Z. Lasemi eds.) Paleozoic and Quaternary Geology of the St. Louis metro east area of western Illinois, 63rd Annual Tri-State Geological Field Conference, Illinois State Geological Survey Guidebook 32, p. 23-33.

Curry BB, **Grimley DA**, and JA Stravers, 1999. Quaternary geology, geomorphology, and climatic history of Kane County, Illinois, Field Trip for the 33rd Annual Meeting of the North-Central Section of the Geological Society of America Illinois State Geological Survey Guidebook 28, 44 p.

Frankie WT, **Grimley DA**, Jacobson RJ, Norby RD, Panno SV, Phillips MA, Hoffman JE, and MR Jeffords, 1997. Guide to the geology of the Columbia and Waterloo area, Monroe County, Illinois, Illinois State Geological Survey Field Trip Guidebook 1997-A, 103 p.

**Grimley DA**, 1995. Chapter 6: Stratigraphy and magnetic susceptibility of Moses Gravel Pit, in (S.P. Esling and M.D. Blum eds.) Quaternary sections in southern Illinois and southeast Missouri, 42nd Annual Midwest Friends of the Pleistocene Meeting, Southern Illinois University, Carbondale, Illinois, p. 6.1 - 6.15.

**Grimley DA**, 1991. Magnetic susceptibility: its application to Midwestern loess/paleosol sequences, in (E.R. Hajic, W.H. Johnson, and L.R. Follmer, eds.) Quaternary deposits and landforms, confluence region of the Mississippi, Missouri, and Illinois Rivers, Missouri and Illinois: terraces and terrace problems, 38th Field Conference of the Midwest Friends of the Pleistocene, Urbana, IL, p. 100-106.

**Geologic Maps:**

**Grimley, D.A.,** J.M. Gemperline, and T.H. Larson. 2014. Surficial Geology of Valmeyer Quadrangle, Monroe County, Illinois, Illinois State Geological Survey, IGQ Valmeyer-SG, 2 sheets, 1:24,000; report, 10p.

**Grimley, D.A.** and J.M. Gemperline. 2013. Surficial Geology of Stolletown Quadrangle, Bond and Clinton Counties, Illinois, Illinois State Geological Survey, STATEMAP contract report, 1:24,000; report, 11p.

Bauer, R.A., **D.A. Grimley**, A.C. Phillips and J. Waldsmith, 2012, Overburden thickness, geologic provinces, shear wave velocity reference profiles for Illinois, Technical Report for Cooperative Agreement Proposal to the USGS to Complete St. Louis Area Earthquake Hazards Mapping Project's Seismic and Liquefaction Hazard Maps, United States Geological Survey, Cooperative Agreement Award Number: G10AC00224, pp. 38.

**Grimley, D.A.** and A.C. Phillips, 2011a, Surficial Geology of St. Clair County, Illinois: Illinois State Geological Survey, Illinois County Geologic Map, ICGM St. Clair County-SG, 2 sheets, 1:62,500.

**Grimley, D.A.**, and N.D. Webb, 2010, Surficial Geology of Red Bud Quadrangle, Randolph, Monroe, and St. Clair Counties, Illinois: Illinois State Geological Survey, Illinois Geo­logic Quadrangle Map, IGQ Red Bud-SG, 2 sheets, 1:24,000; report, 15 p.

**Grimley, D.A.**, and A.C. Phillips, 2010, Surficial Geology of Prairietown Quadrangle, Madi­son and Macoupin Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Prairietown-SG, 2 sheets, 1:24,000.

Nelson, W.J., and **D.A. Grimley**, 2010, Surficial Geology of Welge Quadrangle, Randolph and Jackson Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quad­rangle Map, IGQ Welge-SG, 1:24,000, report, 6 p.

**Grimley, D.A.**, 2010, Surficial Geology of Mascoutah Quadrangle, St. Clair County, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Mascoutah-SG, 2 sheets, 1:24,000; report, 9 p.

**Grimley, D.A**. and N.D. Webb, 2009, Surficial Geology of New Athens East Quadrangle, St. Clair County, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ New Athens East-SG, 2 sheets, 1:24,000; report, 12 p.

**Grimley, D.A.**, 2009, Surficial Geology of Columbia Quadrangle, Monroe and St. Clair Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Columbia-SG, 2 sheets, 1:24,000.

**Grimley, D.A**. and G.A. Shofner, 2008, Surficial Geology of Ames Quadrangle, Monroe and Randolph Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Ames-SG, 2 sheets, 1:24,000.

Panno, S.V., J.C. Angel, **D.A. Grimley**, C.P. Weibel and B.J. Stiff, 2008, Bedrock Topography of Columbia Quadrangle, Monroe and St. Clair Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Columbia-BT, 1:24,000.

**Grimley, D.A.** , A.C. Phillips, and S.W. Lepley, 2007, Surficial Geology of Monks Mound Quadrangle, Madison and St. Clair Counties, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Monks Mound-SG, 1:24,000.

**Grimley, D.A.** and A.C. Phillips, 2006, Surficial Geology of Madison County, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Madison County-SG, 1:100,000.

**Grimley, D.A.**, 2005, Surficial Geology of Bethalto Quadrangle, Madison and Macoupin Counties, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Bethalto-SG, 1:24,000.

**Grimley, D.A.** and A.C. Phillips, 2005, Surficial Geology of Grantfork Quadrangle, Madison County, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Grantfork-SG, 1:24,000.

**Grimley, D.A.**, 2005, Surficial Geology of New Douglas Quadrangle, Madison and Macoupin Counties, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM New Douglas-SG, 1:24,000.

**Grimley, D.A.** and S.W. Lepley, 2005, Surficial Geology of Wood River Quadrangle, Madison County, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Wood River-SG, 1:24,000.

**Grimley, D.A.**, 2005, Surficial Geology of Pingree Grove Quadrangle, Kane County, Illinois: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ Pingree Grove-SG. 1:24,000.

**Grimley, D.A.**, 2004, Surficial Geology of Worden Quadrangle, Madison County, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Worden-SG, 1:24,000.

Phillips, A.C., and **D.A. Grimley**, 2004, Surficial Geology of Marine Quadrangle, Madison County, Illinois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Marine-SG, 1:24,000.

**Grimley, D.A.**, 2004, Surficial Geology of Maple Park Quadrangle, Kane County, IL: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Maple Park-SG, 1:24,000.

**Grimley, D.A.**, and T.J. McTighe, 2004, Bedrock Topography of Maple Park Quadrangle, Kane County, IL: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Maple Park-BT, 1:24,000.

**Grimley, D.A.**, and E.D. McKay, 2004, Surficial Geology of French Village Quadrangle, St. Clair County, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ French Village-SG, 1:24,000.

**Grimley, D.A.**, and F.B. Denny, 2004, Bedrock Topography of French Village Quadrangle, St. Clair County, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map, IGQ French Village-SG, 1:24,000.

**Grimley, D.A.**, 2002, Surficial Geology Map, Elsah Quadrangle, Jersey and Madison Counties, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map IGQ Elsah-SG, scale 1:24,000.

Curry, B.B., **D.A. Grimley**, and T.H. Larson. 2002. Surficial Geology Map, Sugar Grove Quadrangle, Kane County, Illinois: Illinois State Geological Survey, Illinois Geological Quadrangle Map, IGQ Sugar Grove-SG, 1:24,000.

**Grimley, D.A.** and B.B. Curry, 2001. Surficial Geology Map, Elburn Quadrangle, Kane County, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map IGQ Elburn-SG, 1:24,000.

**Grimley, D.A.** and B.B. Curry, 2002, Surficial Geology Map, Geneva Quadrangle, Kane County, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map IGQ Geneva-SG, 1:24,000.

**Grimley, D.A.**, D.M. Kulczycki, and B.B. Curry. 2001. Topographic map of the bedrock surface and drift thickness, northern Beecher West and southern Steger Quadrangles, Will County, Illinois. Illinois State Geological Survey, IGQ Beecher-Steger-BT/DT, 1:24,000.

Curry, B.B. and **D.A. Grimley**. 2001. Surficial Geology Map, northern Steger and southern Beecher West Quadrangles, Will County, Illinois: Illinois State Geological Survey, Illinois Geological Quadrangle Map, IGQ Steger/Beecher West-SG, 1:24,000.

Curry, B.B., **D.A. Grimley**, and D.M. Kulczycki. 2001. Data for mapping the geology of the northern Beecher West and southern Steger Quadrangles, Will County, Illinois. Illinois State Geological Survey, IGQ Beecher-Steger-DP, 1:24,000.

**Grimley, D.A.**, Stiff, B.J., and M.J. Andrew, 2001, Geologic road map of Illinois: surface deposits and landscapes, Illinois State Geological Survey, Illinois Map 10, 1:760,320.

**Grimley, D.A.**, 1999, Surficial Geology Map, Alton Quadrangle (Illinois portion), Madison County, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map IGQ Alton SG, 1:24,000.

**Grimley, D.A.**, 1999, Surficial Geology Map, Grafton Quadrangle (Illinois portion), Jersey and Calhoun Counties, IL: Illinois State Geological Survey, Illinois Geologic Quadrangle Map IGQ Grafton-SG, 1:24,000.

**Grimley, D.A.**, 1997, Quaternary Deposits in Carroll County, Illinois, Illinois State Geological Survey Open File Series 1997-13b.

McGarry, C.S. and **D.A. Grimley**, 1997, Carroll County Aquifer Sensitivity Map, Illinois State Geological Survey Open File Series 1997-13i.

McGarry, C.S. and **D.A. Grimley**, 1997, Potential Dolomite Resources of Carroll County, Illinois State Geological Survey Open File Series 1997-13k.

**Presentations / Abstracts:**

Kim DM, Blackwell BA, Curry BB, Blickstein JI, and **Grimley DA**. 2014. Shell We Date? ESR Dating Molluscs from the Sangamonian Interglacial Deposits at Hopwood Farm, Illinois. GSA Abstracts With Programs, v. 46, no. 4. [Lincoln, NB]

**Grimley DA,** JM Gemperline, and TH Larson. 2013. Ice-Pressed Ridges of the Penultimate Glaciation in the Kaskaskia Sublobe, South-Central Illinois. GSA Abstracts With Programs, v. 45, no. 7, p. 413 [Denver, CO]

**Grimley DA** and EA Oches. 2013. Pleistocene Molluscan Assemblages to Aid Understanding of Paleoenvironment, Paleoclimate and Chronology: Examples From Illinois. Geological Society of America Abstracts With Programs.  v. 45, no. 4, p.17. [Kalamazoo, MI]

Bruegger A, Curry BB, and **Grimley, DA**. 2013. Ice-Walled Lake Plains Highlighted on New Surficial Geology Map of Kane County, Illinois. Geological Society of America Abstracts With Programs. v. 45, no. 4, p.14 [Kalamazoo, MI]

**Grimley, DA**, Illinois Episode Glaciation in Illinois. 2012. Prairie Research Institute Prairie Lightning Symposium. [Champaign, IL]

[**Grimley, DA**](http://csaweb114v.csa.com/ids70/p_search_form.php?field=au&query=grimley+david+a&log=literal&SID=hm0hmi97iea5levmmu4ng4glu0), [Phillips, AC](http://csaweb114v.csa.com/ids70/p_search_form.php?field=au&query=phillips+andrew+c&log=literal&SID=hm0hmi97iea5levmmu4ng4glu0). 2011. Middle to late Quaternary base level fluctuations in the Kaskaskia Lowland, southwestern Illinois. Abstracts with Programs - Geological Society of America, v.43, no.5, p.508 [Minneapolis, MN]

Phillips, AC, **Grimley, DA**., Keefer, DA. 2011. Spatial errors for well logs used in geologic mapping: the consequences of being wrong. Abstracts with Programs - Geological Society of America, v.43, no. 5, p.627

Phillips, AC, **Grimley, DA**. 2010. Geochemistry of Illinois- and pre-Illinois episode sediment in southwestern Illinois. Abstracts with Programs - Geological Society of America, vol. 42, no. 2, pp.68.

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