

## JOHN PAUL POPE

Northwest Missouri State University, Dept. of Geology/Geography  
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### Education:

University of Iowa, Iowa City, Iowa, 52242, PhD. in Geoscience: May, 2006.  
University of Iowa, Iowa City, Iowa, 52242, MS in Geology: May, 1999.  
Northwest Missouri State University, Maryville, Missouri, 64468; BS in Geology (cum laude): May, 1996.  
Southwestern Community College, Area XIV, Creston, Iowa, 50801, Associate Degree in Applied Science-electronics: May, 1976.

### Work Experience:

2009-present: Assistant Professor of Geology, Northwest Missouri State University: tenure track.  
2002-2009: Assistant Professor of Geology, Northwest Missouri State University: non-tenure track.  
2001-2002: Graduate student; research assistant/summer intern Iowa Geological Survey (IGS); teaching assistant University of Iowa (UI fall 2001); Morrissey Surveying.  
1998-2001: Graduate student; research assistant/summer intern Iowa Geological Survey (IGS); teaching assistant University of Iowa (UI); Morrissey Surveying.  
1996-1998: Graduate student; research assistant/summer intern Iowa Geological Survey (IGS); Morrissey Surveying.  
1992-1996: Undergraduate student; self employed; Morrissey Surveying (experience with Sokkia total station and general land surveying techniques).

### Geology Work Experience:

**Northwest Missouri State University, Assistant Professor of Geology (2002-present).**

**Courses taught: General Geology lecture & lab, General Geology Honors lecture and lab, Historical Geology lecture & lab (2002-2007), Structural Geology lecture and lab (2002-2007), Economic Geology (2002-2007), Optical Mineralogy lecture & lab, Physical Oceanography, Stratigraphy lecture and lab, Field Trip, Advanced Field Trip, Earth Science lecture & lab, On-line Earth Science lecture and lab, Paleontology, Sedimentology lecture & lab, Senior Seminar, Geology of National Parks, Maps and Map Interpretation.**

**Committees: Health and Welfare (2003-2008), SEM user policies (2005-present), Student Faculty Discipline (2008-2011) Philosophy Dimension (2010-2011).**

**Rock lab manager: train students to use equipment, repair and maintain rock equipment (e.g. saws, thin section machine, vacuum oven).**

University of Iowa, Introduction to Geology teaching assistant (fall/spring 1998, 1999, 2000), Earth History and Resources (EH & R) teaching assistant (fall 2001).

Sequence stratigraphy, conodont biostratigraphy research assistant (fall/spring 1998, 1999, 2000).  
Field methods, field camp-teaching assistant (field mapping), summer 1999.

Consulting geologist: estimating recoverable reserves of limestone for crushed gravel, royalties, and potential for leasing or sale of sites in Iowa and Missouri (1996-present), Runamuck and Tarkio oil fields evaluation of oil reserves in Atchison County, Missouri, (2010-present), Schildberg Constuction Company and Energy Ventures, L.L.C. (2011).

Iowa Geological Survey, research assistant on digital state bedrock mapping USGS STATEMAP project. Three, one-year projects (1996-1997, 1997-1998, 2001-2002)

NWMSU (undergraduate) Structural geology lab, teaching assistant, spring 1995, 1996.

Paleontology lab, teaching assistant, spring 1994, 1995, 1996.

Paleontology lecture (February-May, 1995).

Experience with Silicon Graphics UNIX workstation basin analysis and modeling (STRATA and GMS), remote sensing (ER Mapper). PC experience with Canvas, Adobe Illustrator, Adobe Photoshop, Excel, Corel, Powerpoint, Word, Arcview 3, ArcGIS 9.0, and seismic data and well log analysis using Rockware. SEM (Hitachi-4000, JEOL JSM6400F), XRD, optical analysis, cathodoluminescope, field mapping, total station land surveying and various other types of field work.

### Memberships:

American Association of Petroleum Geologists (AAPG)

Active Member 2010-present

Associate Member 1993-2010

Faculty sponsor of student chapter at Northwest Missouri State University (2002-present)

Association of Missouri Geologists (AMG)

President (2011)

Nominating committee (2009), president-elect/field trip chair (2010)

Geological Society of America (GSA) - North-Central Section

Session chair - 2010 joint South-Central-North-Central meeting (Branson, MO)

Geological Society of Iowa (GSI)

Mid-American Paleontological Society (MAPS)

Missouri Academy of Science (MAS)

Collegiate Geology Section Chair (2009-present)

Society for Sedimentary Geology (SEPM) - Great Lakes Section

I.U.G.S. Sub-Commission on Carboniferous Stratigraphy (SCCS)

National Association of Geology Teachers (NAGT)

Pander Society

Madison County [IA] Historical Society - lifetime member.

### Publications and Abstracts:

**Pope, J.P.**, *in press*, Description of Pennsylvanian units, revision of stratigraphic nomenclature and reclassification of the Morrowan, Atokan, Desmoinesian, Missourian, and Virgilian stages (Cherokee, Marmaton, Bronson, Kansas City, Lansing, Douglas, Shawnee, and Wabaunsee groups) in Iowa: Iowa Geological Survey, 155 p.

**Pope, J.P.**, Pronina-Nestell, G.P., Nestell, M.K., and Barrick, J.E., *in press*, A remarkable Middle Pennsylvanian microfossil assemblage from the Excello Shale Member, Mouse Creek Formation, south-central Iowa, USA: 6<sup>th</sup> International Conference of Environmental Micropaleontology, Microbiology and Meiobenthology (Russian Branch), Borissiak Paleontological Institute, Russian Academy of Science, Moscow, Russia. [extended abs.]

Nestell, G.P., **Pope, J.P.**, and Nestell, M.K., *in review*, Middle Pennsylvanian (Desmoinesian) radiolarian from south-central Iowa, northern Midcontinent North America: Journal of Micropaleontology.

**Pope, J.P.**, *in press*, The Bandera Shale and Altamont Limestone in Iowa: Missouri Academy of Science Transactions, [abs.] (Lincoln Univ.)

Hunter, B.S., and **Pope, J.P.**, *in press*, Possible high-order cycles preserved in the high-stand systems tract of the Queen Hill Shale Member of the Lecompton Formation (Shawnee Group, Virgilian Stage, Upper Pennsylvanian) of northwest Missouri: Missouri Academy of Science Transactions, [abs.] (Lincoln Univ.) (UGR) Placed 1<sup>st</sup> in MAS Collegiate Geology Section, 2011.

- Pope, J.P.**, and Pope, D.L., 2010, From alternative energy to the Pennsylvanian: alternative energy, petroleum, loess, wind turbines and Pennsylvanian stratigraphy, with a contribution by George H. Davis: Association of Missouri Geologists, 57<sup>th</sup> annual meeting field trip guidebook, Northwest Missouri State University, 114 p. (**field trip co-leader**)
- Witzke, B.J., Anderson, R.R., and **Pope, J.P.**, 2010, Bedrock geologic map of Iowa [map discussion as separate PDF]: Iowa Department of Natural Resources, Iowa Geological and Water Survey, Open File Map OFM-2010-01.
- Pope, J.P.**, and Marshall, T.R., 2010, Pennsylvanian geology of Decatur City and Thayer quarries: *in* The Pennsylvanian geology of south-central Iowa: Marshall, T., and Fields, C., eds., Geological Society of Iowa Guidebook 86, p. 3-26.
- Pope, J.P.**, 2010, The Tebo Formation in Missouri: Missouri Academy of Science, Missouri State, 17<sup>th</sup> Annual Graduate Interdisciplinary Forum and Missouri Academy of Science - Senior Division, [abs.], p. 72. (Springfield, MO)
- Pope, J.P.**, Nestell, G., and Nestell M., 2010, Microfossils preserved in early diagenetic concretions within the Oakley and Excello shales of the Midcontinent: GSA North-Central/South-Central sections combined meeting (Branson, MO), GSA Abstracts with Programs Vol. 42, No. 2, p. 41.
- Pope, J. P.**, 2010, Problems with a strict lithostratigraphic classification system in the Pennsylvanian Cherokee Group of the Midcontinent: GSA North-Central/South-Central sections combined meeting (Branson, MO), GSA Abstracts with Programs Vol. 42, No. 2, p. 51.
- Fisher, M., and **Pope, J. P.**, 2010, Conodont biostratigraphy of marine units above the type Tebo Coal, Henry County, Missouri: GSA North-Central/South-Central sections combined meeting (Branson, MO), GSA Abstracts with Programs Vol. 42, No. 2, p. 50. (UGR) This paper placed in the top fifteen of all undergraduate and graduate oral presentations.
- Pope, J.P.**, and Marshall, T.R., 2009, Pennsylvanian Geology of the Saylorville Emergency Spillway: *in* Geology of the Saylorville Spillway after the flood of 2008: Anderson, R.R., and Fields, C., eds., Geological Society of Iowa Guidebook 84, p. 39-63. (**field trip co-leader**)
- Pope, J.P.**, 2009, Revision of Stratigraphic Nomenclature, and reclassification of the Morrowan, Atokan, Desmoinesian, Missourian, and Virgilian stages in Iowa: South-Central Geological Society of America (Dallas, TX), Abstract with Programs, Vol. 41, No. 2, p. 33.
- Leger, A.M., Agenbroad, L.D., and **Pope, J.P.**, 2009, Comparative Analyses of Cranial Measurements with Dental Ages of the Columbian Mammoth (*Mammuthus columbi*) from the Mammoth Site of Hot Springs, South Dakota: South-Central Geological Society of America (Dallas, TX), Abstract with Programs, Vol. 41, No. 2, p. 10. (UGR) Placed 2<sup>nd</sup> in MAS Collegiate Geology Section, 2009.
- Bulen, C., and **Pope, J.P.**, 2009, Petrology, Petrography and Conodont Biostratigraphy of the Burlingame Limestone and Soldier Creek Shale Members of the Bern Formation, Rulo, Nebraska: South-Central Geological Society of America (Dallas, TX), Abstract with Programs, Vol. 41, No. 2, p. 10. (UGR)
- Fisher, M.J., and **Pope, J.P.**, 2009, Paleontology, Petrology and Petrography of early diagenetic calcareous concretions in the Oakley Shale (Verdigris Formation) at Saylorville Dam Emergency Spillway, Polk County, Iowa: South-Central Geological Society of America (Dallas, TX), Abstract with Programs, Vol. 41, No. 2, p. 10. (UGR)
- Christy, S., and **Pope, J.P.**, 2009, High Uranium Concentrations in the Central Oklahoma Aquifer near Guthrie, Logan County, Oklahoma: South-Central Geological Society of America (Dallas, TX), Abstract with Programs, Vol. 41, No. 2, p. 9. (UGR)
- Pope, J.P.**, Leger, A.M., and Britton, L., 2008, Recognition and significance of minor sea level changes in Pennsylvanian cyclothems of the Northern Midcontinent Iowa Shelf Region: North-Central Section GSA (Evansville, IN), GSA Abstracts with Programs, Vol. 40, No. 5, p. 14.

- Leger, A.M., and **Pope, J.P.**, 2008, Recognition of a sea level fluctuation preserved in the high-stand systems tract of the Mid-Hartford Limestone (Lower Topeka cyclothem) in the Iowa Shelf Region, Northern Midcontinent: North-Central Section GSA (Evansville, IN), GSA Abstracts with Programs, Vol. 40, No. 5, p. 75. (UGR)
- Pope, D.L., and **Pope, J.P.**, 2008, Petrology and petrography of the Curzon Limestone Member, Topeka Formation (Shawnee Group, Virgilian Stage, Pennsylvanian) at Barrett Hollow, Holt County, Missouri: North-Central Section GSA (Evansville, IN), GSA Abstracts with Programs, Vol. 40, No. 5, p. 75. (GR)
- Leger, A.M., and **Pope, J.P.**, 2007, Possible high-order Milankovitch cycles preserved in the high-stand systems tract (Holt Shale Member) of the Topeka Formation (Virgilian, Upper Pennsylvanian) of northern Midcontinent North America: GSA North-Central/South-Central sections combined meeting (Lawrence, KS), GSA Abstracts with Programs, Vol. 39, No. 3, p. 57. (UGR)
- Jacobs, K., and **Pope, J.P.**, 2007, Petrology and Petrography of the Ozawkie Limestone Member of the Deer Creek Formation (Pennsylvanian, Virgilian) of Midcontinent North America: northwest Missouri and northeast Kansas: GSA North-Central/South-Central sections combined meeting (Lawrence, KS), GSA Abstracts with Programs, Vol. 39, No. 3, p. 58. (UGR)
- Henning, M., and **Pope, J.P.**, 2007, Paleontology of the upper Snyderville Shale Member (Oread Formation, Shawnee Group, Virgilian Stage)I-229, Andrew County, Missouri: GSA North-Central/South-Central sections combined meeting (Lawrence, KS), GSA Abstracts with Programs, Vol. 39, No. 3, p. 56. (UGR)
- Pope, J.P.**, 2006, Three groups of unusual microfossils in the Pennsylvanian and Permian successions in Midcontinent North America: Unpublished PhD. thesis, The University of Iowa, Iowa City, Iowa, 192 p.
- Pope, D.L., Hickey, J., **Pope, J.P.**, and Rohs, R., 2005, Petrography and petrology of a basaltic andesite sample from Arenal volcano, Costa Rica: GSA Annual Meeting (Denver, CO), GSA Abstracts with Programs, Vol. 37, No. 7, p. 298. (UGR)
- Leipard, D.L., Hickey, J., and **Pope, J.P.**, 2005, Undergraduate research: a students perspective on learning through research: North-Central Section GSA (Minneapolis, MN), GSA Abstracts with Programs, Vol. 37, No. 5, p. 100. (UGR)
- Hickey, J., Rohs, R., and **Pope, J.P.**, 2005, Terra Firma: methods of field-based instruction to solidify geologic concepts: North-Central Section GSA (Minneapolis, MN), GSA Abstracts with Programs, Vol. 37, No. 5, p. 98.
- Britton, L., and **Pope, J.P.**, 2005, High-order T-R cycles within the high-stand systems tract of the Deer Creek cyclothem (Upper Pennsylvanian, Virgilian Stage, Shawnee Group) of Oklahoma and Kansas: North-Central Section GSA (Minneapolis, MN), GSA Abstracts with Programs, Vol. 37, No. 5, p. 17. (UGR)
- Frizzell, J.C., and **Pope, J.P.**, 2005, Digital South-Central Iowa Bedrock Map of the Upper and Lower Cherokee (Swede Hollow and Floris formations) Boundary: North-Central Section GSA (Minneapolis, MN), GSA Abstracts with Programs, Vol. 37, No. 5, p. 17. (UGR)
- Phillips, P.L., White, T.S., Witzke, B.J., Ludvigson, G.A., Brenner, R.L., Gonzalez, L.A., and **Pope, J.P.**, 2005, Significance of cone-in-cone structures in marine mudstones: Southeast Section GSA (Biloxi, MS), GSA Abstracts with Program, Vol. 37, No. 2, p. 37.
- Pope, J.P.**, 2004, Enigmatic organic-walled microfossils from the Pennsylvanian (Missourian and Virgilian) of Iowa, Missouri, Kansas, and Oklahoma: North-Central Section GSA (St. Louis, MO), GSA Abstracts with Programs, Vol. 36, No. 3, p. 14.
- Britton, L., and **Pope, J.P.**, 2004, Recognition of minor regressive sea-level changes during the generally highstand phase of the Deer Creek cyclothem (upper Shawnee Group, Virgilian) of northern Midcontinent North America: North-Central Section GSA (St. Louis, MO), GSA Abstracts with Programs, Vol. 36, No. 3, p. 10. (UGR)

- Heckel, P.H., Lambert, L.L., **Pope, J.P.**, and Barrick, J.E., 2003, Comments on localities and stratigraphic units from which Gunnell (1931, 1933) and Ellison (1941) named new Pennsylvanian conodonts in the Kansas City Region: *in* Conodont-rich Pennsylvanian dark shales of the Kansas City region: Heckel, P.H., ed., p. 99-111, *in* Geologic field trips in the greater Kansas City area: Niemi, T.M., ed., 37<sup>th</sup> annual North-Central Geological Society of America meeting (Kansas City, MO), co-sponsors: Department of Geosciences University of Missouri-Kansas City, Missouri Department of Natural Resources, Rolla, and the Pander Society, p. 53-111. [field trip co-leader]
- Robinette, B., Goetz, S., and **Pope, J.P.**, 2003, Stratigraphic correlation of a Pre-Illinoian diamicton, northwestern Missouri: North-Central Section GSA (Kansas City, MO), GSA Abstracts with Programs, Vol. 35, No. 2. (UGR)
- Pope, J.P.**, Witzke, B.J., Anderson, R.R., Bunker, B.J., Ludvigson, G.A., and Greeney, S., 2002, Bedrock geology of south-central Iowa, Digital geologic map of Iowa, Phase 4: South-Central Iowa: Iowa Department of Natural Resources, Iowa Geological Survey, OFM-02-1.
- Pope, J.P.**, Witzke, B.J., Ludvigson, G.A., and Anderson, R.R., 2002, Bedrock geologic map of south-central Iowa: (discussion), Iowa Department of Natural Resources, Iowa Geological Survey, OFM-02-1, 24 p.
- Pope, J.P.**, and Goettemoeller, A.E., 2002, Overview of lower Desmoinesian (Pennsylvanian) stratigraphy in south-central Iowa: *in* Anderson, R.A., ed., Prairies to coal swamps: geological features in south-central Iowa: Geological Society of Iowa Guidebook 73, 77 p.
- Ludvigson, G.A., **Pope, J.P.**, and Goettemoeller, A.E., 2002, Sphaerosiderites in paleosols of the Pennsylvanian Cherokee Group of southern Iowa: physical and geochemical tracers of equatorial precipitation: *in* Anderson, R.A., ed., Prairies to coal swamps: geological features in south-central Iowa: Geological Society of Iowa Guidebook 73, 77 p.
- Pope, J.P.**, 2002, Occurrence of abundant well-preserved Pennsylvanian radiolarians in the Excello Shale (basal Marmaton Group, upper Desmoinesian) of south-central Iowa: North-Central and Southeastern Joint Annual Meeting, GSA (Lexington, KY), Abstracts with Programs, Vol. 34.
- Pope, J.P.**, and Emerman, S.H., 2000, From brachiopods to big bluestem: the cyclothems, sequence stratigraphy, and structure of Madison and Warren counties, Iowa: Geological Society of Iowa Guidebook 69, 58 p.
- Sumrall, C.D., Garbisch, J., and **Pope, J.P.**, 2000, The systematics of Postibullinid edrioasteroids: Journal of Paleontology, p. 72-83.
- Pope, J.P.**, 1999, Sequence stratigraphy of cyclothems in the Bond Formation (Missourian, lower Upper Pennsylvanian) in north-central and southwestern Illinois: Unpublished MS thesis, The University of Iowa, Iowa City, Iowa, 177 p.
- Pope, J.P.**, and Heckel, P.H., 1999, Listing of fossils recognized at field trip stops: *in* Field Trip #8: Middle and Upper Pennsylvanian (Upper Carboniferous) cyclothem succession in Midcontinent Basin, U.S.A., Heckel P.H., ed., in association with XIV International Congress on the Carboniferous-Permian, Calgary, Canada, 1999, Kansas Geological Survey open-file report 99-27, p. 217-236. (**field trip co-leader**)
- Heckel, P.H., Weibel, C.P., and **Pope, J.P.**, ms in prep, Preliminary description and correlation of Upper Pennsylvanian strata recently exposed in northern Illinois: for submission to the Illinois Geological Survey.
- Witzke, B.J., Ludvigson, G.A., McKay, R.M., Anderson, R.R., Bunker, B.J., Giglierano, J.D., **Pope, J.P.**, Goettemoeller, A.E., Slaughter, M.K., 1998, Bedrock geology of northeast Iowa, Digital geologic map of Iowa, Phase 2: Northeast Iowa: Iowa Department of Natural Resources, Iowa Geological Survey, OFM- 98-7.
- Pope, J.P.**, and Heckel, P.H., 1998, Preliminary evidence for possible tectonic control over a Pennsylvanian marine cyclothem in southwestern Illinois: North-Central Section GSA (Columbus, OH), GSA Abstracts with Programs, Vol. 30, No. 2, p. 67.

- Brownfield, R.L., Brenner, R.L., and **Pope, J.P.**, 1998, Distribution of the Bandera Shale of the Marmaton Group, Middle Pennsylvanian of southeastern Kansas: Kansas Geological Survey, Current Research in Earth Sciences, Bulletin 241, Part 2, (Web Version)  
<http://www.kgs.ukans.edu/current/1998/brownfield/brownfield1.html>
- Witzke, B.J., Ludvigson, G.A., Anderson, R.R., Bunker, B.J., Slaughter, M.K., Giglierano, J.D., **Pope, J.P.**, Whitsett, T.M., and Bounk, M.J., 1997, Bedrock geology of northwest Iowa, Digital geologic map of Iowa, Phase 1: Northwest Iowa: Iowa Department of Natural Resources, Iowa Geological Survey, OFM-97-1.
- Brownfield, R.L., Brenner, R.L., and **Pope, J.P.**, 1997, Marine-influenced shoreline deposits in the Bandera Formation of the Marmaton Group, Middle Pennsylvanian of southeastern Kansas: North-Central Section GSA, GSA Abstracts with Programs, Vol. 29, No. 4.
- Ludvigson, G.A., Witzke, B.J., Liu, P.H., and **Pope, J.P.**, 1997, Outlier of Cretaceous Niobrara Formation in Lyon County, Iowa [abs]: Iowa Academy of Science, Program Abstracts, 109th session.
- Pope, J.P.**, 1996, Middle and Late Pennsylvanian conodont biostratigraphy of the northern Mid-Continent in Iowa and Missouri [abs.]: Missouri Acad. of Science Transactions, Vol. 30, p. 127. (Drury College)
- Pope, J.P.**, and Chantooni, A., 1996, Pennsylvanian geology of the Saylorville Dam emergency spillway after the floods of '93: Army Corps of Engineers, 114 p.
- Felton, R.M., and **Pope, J.P.**, 1995, Significance of internal stratigraphy of the Bethany Falls Limestone Member, Swope Formation and the Winterset Limestone Member, Dennis Formation (Pennsylvanian, Missourian) northern Mid-Continent Shelf [abs.]: Missouri Academy of Science Transactions, Vol. 29, p. 81. (NWMSU)
- Pope, J.P.**, 1995, Depositional cycles in the Bethany Falls Limestone Member, Swope Formation (Pennsylvanian, Missourian), northern Missouri [abs.]: Missouri Academy of Science Transactions, Vol. 29, p. 104. (NWMSU)
- Pope, J.P.**, 1994, Depositional cycles in the Bethany Falls Limestone Member, Swope Formation (Pennsylvanian, Missourian), Taylor County, Iowa [abs.]: Missouri Academy of Science Transactions, Vol. 28, p. 132. (SEMO)
- Pope, J.P.**, 1993, Depositional cycles in the Bethany Falls Limestone Member, Swope Formation (Pennsylvanian, Missourian), Madison Co., Iowa [abs.]: Missouri Academy of Science Transactions, Vol. 27. (UMKC)
- Heckel, P.H., and **Pope, J.P.**, 1992, Stratigraphy and cyclic sedimentation of Middle and Upper Pennsylvanian strata around Winterset, Iowa: North Central Section-Geological Society of America and Geological Society of Iowa, guidebook series 14, 53 p. (**field trip co-leader**)
- Wolf, R.R., **Pope, J.P.**, and Chantooni, A.M., 1990, A.M.A.T.E.U.R. A Marmaton, Amateur-led Trek to Exposures Unexplored near the Raccoon River (southeast Dallas County): Geological Society of Iowa, Guidebook No. 52, 34 p.

#### **Accomplishments and awards:**

- Session chair- NC-SC GSA combined meeting spring 2010, Branson, MO.  
 Collegiate Division Chair MAS (2009-present).  
 Nominating committee (2008-present), president elect/field trip chair (2010), president (2011) AMG.  
 Alpha Sigma Lambda- nontraditional students honor society (2009)  
 Organized and faculty sponsor of student chapter of AAPG at NWMSU (2002-present). AAPG L.  
 Austin Weeks Award has presented seven \$500.00 grants to student members and \$3500.00 to the student chapter. AAPG Library fund has donated \$1000 in books to the student chapter.  
 University of Iowa Student Chapter AAPG, charter member, Pres. 1999/2000, V.P. 2000/2001.  
 University of Iowa Geology Dept. Scholarships (1996, 1997, 1998, 1999).  
 W.A. Tarr award, Sigma Gamma Epsilon, 1996.

O.R. Grawe Award from Association of Missouri Geologists for **outstanding undergraduate geology student of Missouri (1995)**.

Student representative for undergraduate research (NWMSU, 1995-1996).

L.B. and Elsie Day Scholarship (NWMSU Geology/Geography Department, 1995).

National Association of Geology Teachers (NAGT) Scholarship, field camp, 1995.

Mortar Board (1995) honor society, charter member.

Missouri Academy of Science, collegiate student geology competition (abs. with program): **1st place 1993, 1st place 1994, 2nd place 1995, 3rd place 1996** (undergraduate research).

Regent's Scholarship (1992-1996).

United States Achievement Academy Award (1995).

All-American Scholar (1995).

Who's Who Among Students in American Universities and Colleges (1995, 2000).

Alphi Chi (1994) sophomore honor society.

Charles Taylor Scholarship (1994).

Phi Eta Sigma (1993) freshman honor society.

Sigma Gamma Epsilon (1993) geology honor society; sec-treas. 1994-1995, president 1995-1996.

*Iowa's Self-Trained Paleontologists*: 1983, Iowa Academy of Science Proc. 90, p. 1-12, Wayne Anderson and William Furnish, eds. (**self-trained in paleontology, stratigraphy, and sedimentology before starting formal geology education.**)

I.A.C.C.V.T.I. gold pin (1976) GPA > 3.25 for three semesters.

I.A.C.C.V.T.I. silver pin (1975) GPA > 3.25 for 1 semester.

#### **Invited Talks:**

2003: "Well-preserved radiolarian fauna from the Excello Shale (Marmaton Group, Middle Pennsylvanian) from Dallas County, Iowa." Northwest Missouri State University, Maryville, Missouri.

2000: "Sequence Stratigraphy and Pennsylvanian Cyclothem of the Midcontinent Basin." Central Iowa Mineral Society -- Drake University, Des Moines, Iowa.

2000: "Fossil Hunting in the 'Old' Days." Luther College, Decorah, Iowa.

1999: "Tectonic Control over a Pennsylvanian Marine Cyclothem in Southwestern Illinois." University of Iowa, Iowa City, Iowa.

Numerous talks to school groups and local rock and mineral societies.

#### **Funded Proposals:**

2008: Description of units, revision of stratigraphic nomenclature, and reclassification of the Morrowan, Atokan, Desmoinesian, Missourian, and Virgilian stages (Cherokee, Marmaton, Bronson, Kansas City, Lansing, Douglas, Shawnee, and Wabaunsee groups) in Iowa. Iowa Department of Natural Resources, Iowa Geological Survey: \$500.00

2007: High-order Milankovitch cycles preserved in the high-stand systems tract (HST) of transgressive-regressive sequences in the Middle and Upper Pennsylvanian of the Northern Midcontinent: Faculty Applied Research Grant NWMSU: \$2,402.00

2006: Art meets Science – A community outreach by GeoClub and Sigma Gamma Epsilon with visual art related to the earth sciences: Culture of Quality – Improvement of Teaching and Learning Grant: C. Renee Rohs, Jeff Bradley, Jim Hickey, John Pope: \$340.00

2005: SEM use seed grant: Dean of Arts and Science NWMSU: \$501.50

2004-2010: Undergraduate and Graduate Research Grants NWMSU (17): \$14,399.02

2004: Gary Wilkins Scholarship Fund (University of Iowa Department of Geosciences Research Grant): \$450.00

**Current Research:**

Conodont elements and other microfossils preserved in calcareous concretions in the Excello Shale of south-central Iowa. With Merlynd and Galena Nestell, University of Texas, Arlington. ms in prep.

Occurrence of abundant very-well preserved radiolarians in the Excello Shale of southeast Kansas. With Merlynd and Galena Nestell, University of Texas, Arlington. ms in prep.

Chitinozoa-like fossils from the Late Paleozoic (Upper Pennsylvanian and Lower Permian) in the Midcontinent Basin of Iowa, Kansas, Missouri, and Oklahoma. With Richard Blake, Woods Hole Oceanographic Institute. ms in prep.

Petrology, petrography, sequence stratigraphy and correlation of selected lower Floris Formation and Kilbourn Formation (Cherokee Group, Desmoinesian) strata of south-central, south-eastern and south-western Iowa, with correlations to Missouri, Kansas and Oklahoma. With Tom Marshall, Iowa Geological Survey (four year project, began summer 2009).

Reconstruction and restoration of a 21 foot long mosasaur skeleton (*Platycarpus* sp.) to be repositied in the Geology/Geography museum at Northwest Missouri State University.

**Current Undergraduate Research (UGR):**

The Scammon cyclothem in Missouri, Kansas, and Oklahoma.

Microfossils in calcareous concretions in the Oakley Shale, Missouri and Iowa.

The petrology, petrography and biostratigraphy of the type Red Haw Limestone