

Harold Hamm School of Geology and Geological Engineering Publications list 2012-2017

(ordered by faculty author, in bold print)

Journal Articles

1. **Gerla, P.J.**, Gbolo, P. (2017) Fate and consequence of nutrients at an abandoned feedlot, Glacial Ridge National Wildlife Refuge, Minnesota, USA. *Elementa: The Science of the Anthropocene* (in press).
2. Gbolo, P.J., **Gerla, P.J.**, Vandeberg, G. (2015) Using high-resolution, multispectral imagery to assess the effect of soil properties on vegetation reflectance at an abandoned feedlot. *Geocarto International*, 30(7), 793-809.
3. Gbolo, P. and P. **Gerla**. (2013) Statistical analysis to characterize transport of nutrients in groundwater near an abandoned feedlot. *Hydrology and Earth System Science* 17:4897-4906, www.hydrol-earth-syst-sci.net/17/4897/2013/. doi:10.5194/hess-17-4897-2013.
4. **Gerla, P.J.**, M. Cornett, J. Ekstein, and M Ahlering. (2012) Talking big: lessons learned from a 9,000-hectare restoration in the northern tallgrass prairie. Special Issue: Terrestrial Ecosystem Restoration, S. Cordell, editor. *Sustainability* 4(11):3066-3087, doi:10.3390/su4113066.
5. **Gosnold, W.D.**, Crowell, A.; Keller, K., Brunson, D., Tyler, L., Nwachukwu, F., Onwumelu, C., Ogochukwu, Ozotta, R.H., and Karth, J. (2017) Concept for a Distributed Baseload Binary Power Network, *GRC Trans.*, 41, in press.
6. **Gosnold, W.D.**, Mann, M., and Salehfar, H. (2017) The UND-CLR Binary Geothermal Power Plant, *GRC Trans.*, 41, in press.
7. **Gosnold, W.D.** and Godswill, N. (2017) Heat Flow and Climate Change, *GRC Trans.*, 41, in press.
8. **Gosnold, W.D.**, McLaughlin, S., and Colby, C. (2016) Three- Dimensional Temperature Structure of the Williston Basin, *GRC Trans.*, 40, 640-642.
9. Williams, T., Snyder, N., and **Gosnold, W.D.** (2016) Low Temperature Projects Evaluation and Lesson Learned, *GRC Trans.*, 40, 201-209.
10. Crowell, A., and **Gosnold, W.D.**, Integrating Geophysical Data in GIS for Geothermal Power Prospecting (2015) Geological Society of America Publication: *GEOSPHERE* 11(6):GES01161.1.
11. McDonald, M.R., **Gosnold, W.D.**, and **Nordeng, S.H.** (2015) Preliminary Results of a Heat Flow Study of the Williston Basin Using Temporarily Abandoned Oil Wells, *GRC Transactions*, Vol. 39, 627-634.
12. **Gosnold, W.D.**, Crowell, A., **Nordeng, S.H** and Mann, M. (2015) Co-Produced and Low-Temperature Geothermal Resources in the Williston Basin, *GRC Transactions*, Vol. 39, 653- 660.
13. **Gosnold, W.D.**, and A. Crowell (2014) Heat Flow and Geothermal Research in Mid- Continent of North America, *GRC Transactions*, Vol. 38, 127-131.
14. Crowell, J. and **Gosnold, W.D.** (2013) Detecting Spatial Trends in Thermal Conductivity in the Williston Basin, *Geothermal Resource Council Transactions*, vol. 37, 487-490.
15. **Gosnold, W. D.**, K. Barse, B. Bubach, A. Crowell, J. Crowell, H. Jabbari, A. Sarnoski and Wang, D. (2013) Co-Produced Geothermal Resources and EGS in the Williston Basin, *Geothermal Resource Council Transactions*, vol. 37, 721-726.

16. Crowell, A. M., and **Gosnold, W.D.** (2013) GIS-Based Geothermal Resource Assessment of the Denver Basin: Colorado and Nebraska, Geothermal Resource Council Transactions, vol. 37, 941-944.
17. **Gosnold, W.D.**, McDonald, M., Klenner, R., and Merriam, D. (2012) Thermostratigraphy of the Williston Basin, Geothermal Resources Council Transactions, 36, 663-670.
18. Crowell, A., Ochsner, A., and **Gosnold, W.D.** (2012) Correcting Bottom-Hole Temperatures in the Denver Basin: Colorado and Nebraska, Geothermal Resources Council Transactions, 36, 211-206.
19. Majorowicz, J., **Gosnold, W.D.**, Gray, A., Safanda, J., Klenner, R., and Unsworth, M. (2012) Implications of Post-Glacial Warming For Northern Alberta Heat Flow Correcting For the Underestimate of the Geothermal Potential. Geothermal Resources Council Transactions, 36, 693-698.
20. Young, R., and **Hartman, J.H.** (2014) Paleogene rim gravel of Arizona: Age and significance of the Music Mountain Formation: Geosphere v. 10, 870-891, supplemental file, 22 p.
21. **Ho, I.H.**, and Dickson, M. (2017) Numerical Modeling of Heat Production for a Snow- Melting System Using Geothermal Energy. Journal of Geomechanics for Energy and Environment. Vol. (10), pp 42-51.
22. **Ho, I.H.** (2017) Three-Dimensional Finite Element Analysis for Soil Slopes Stabilization Using Piles. Geomechanics and Geoen지니어ing, An International Journal. Vol. 12 (4). 234-249.
23. **Ho, I.H.**, and Dickson, M. (2017) Analytical Solutions for Snow-Melting System Design for Pavements Using Shallow Geothermal Energy. GeoMEast 2017. Sharm El-Sheik, Egypt, July15-19, 2017. pp 232-243.
24. **Ho, I.H.**, and Dickson, M. (2016) Assessment of Geothermal Snow-Melting System Used in Cold Region Area. Energy Geotechnics, CRC Press, 113-117./b21938-20.
25. **Ho, I.H.** (2015) Numerical Study of Slope Stabilizing Piles in Undrained Clayey Slopes with a Weak Thin Layer. International Journal of Geomechanics, ASCE, Vol. 15, No.5, 06014025.
26. **Ho, I.H.** (2014) Parametric Studies of Slope Stability Analyses Using Three- Dimensional Finite Element Technique: Geometric Effect. Journal of Geoen지니어ing, Vol. 9, No.1, 33-43.
27. **Ho, I.H.**, and Hsieh, C. C. (2013) Numerical Modeling for Undrained Shear Strength of Clays Subjected to Different Plasticity Indexes. Journal of Geoen지니어ing, Vol. 8, No.3, 91-100.
28. Hsieh, C. and Ho, I. (2012) Undrained Shear Strength of Normally Consolidated Clays with Different Plastic Properties. GeoCongress 2012: 2422-2431.
29. **Mahmood, T.H.**, Hasan, K., and Akhter, S.H. (2017) Lithologic mapping of a Forested Montane Terrain from Landsat TM5 image. (Under Review to Geocarto International).
30. **Mahmood, T.H.**, Pomeroy, J.W., Wheeler, H.S., and Baulch, H. (2017) Hydrological responses to dry and wet conditions in an agricultural cold region. Hydrological Processes, 31(4), 854-870.
31. **Nordeng, S.H.** (2017) Regional Kerogen Kinetics of the Bakken Formation (Miss.-Dev.) in the Williston Basin, North Dakota, AAPG Bulletin, in press.
32. Gilbert, L.A., Stempien, J., McConnell, D.A., Budd, D.A., van der Hoeven Kraft, K.J., Jones, M.H., Knight, C.C., **Matheney, R.K.**, **Perkins, D.**, Wirth, K. (2012) Not Just "Rocks for Jocks": Who are introductory geology students and why are they here? J. Geosci. Ed., v60, 360-377.
33. Madoff, R.D., and **Putkonen, J.** (2016) Climate and hillslope degradation vary in concert; 85 ka to

present, eastern Sierra Nevada, CA, USA. *Geomorphology* 266, 2016 33-40.
<http://dx.doi.org/10.1016/j.geomorph.2016.05.010>.

34. Bibby, T., **Putkonen, J.**, Morgan, D.J., Balco, G., and Shuster, D.L. (2016) Million year old ice found under meter thick debris layer in Antarctica, *Geophys. Res. Lett.*, 43
doi:10.1002/2016GL069889.
35. **Putkonen, J.**, Morgan, D.J., and Balco, G. (2014) Boulder Weathering in McMurdo Dry Valleys, Antarctica. *Geomorphology* 219, 192-199.
36. Warren, K., Eppes, M-C., Swami, S. Garbini, J., and **Putkonen, J.** (2013). Automated field detection of rock fracturing, microclimate, and diurnal rock temperature and strain fields. *Geosci. Instrum. Method. Data Syst.* 3, 371-406.
37. Burbank, D.W., Bookhagen, B., Gabet, E., and **Putkonen, J.** (2012) Modern Climate and Erosion in the Himalaya. *Compute Rendus Geoscience*, 344, 610-626.
38. **Putkonen, J.** Morgan, D.J., and Balco, G. (2012) Regolith Transport Quantified by Braking Block, McMurdo Dry Valleys, Antarctica. *Geomorphology* 155-156, pp. 80-87.
39. **Wang, D.**, Zhang, J., and Butler, R. (2017) "Fluid Interaction with Tight Rocks to Induce Energy Recovery". *Oil and Gas Research*, April, Volume 3 (2), 441-449. ISSN: 2472- 0158.
40. **Wang, D.**, Seright, R., Moe Soe Let, K.P., Bhoendie, K., and Paidin, W.R. (2017) "Compaction and Dilation Effects on Polymer Flood Performance". Paper SPE-185851- MS was prepared for presentation at the SPE Europec featured at 79th EAGE Annual Conference and Exhibition held in Paris, France, 12-15 June 2017.
41. **Wang, D.**, Zhang, J., Butler, R., and Olatunji, K. (2016) "Scaling Laboratory Data Surfactant Imbibition Rates to the Field in Fractured Shale Formations". *SPE Engineering and Evaluation*, August, Volume 19 (03), 441-449.
42. **Wang, D.** (2015) Surfactants May Boost Bakken Output. *AOGR*, February, v. 51 (2), 88-91.
43. **Wang, D.** (2014) Mixing Oil and Water May Keep Bakken Wells Flowing, *Bakken Oil Business Journal*. February, 46-47.
44. **Wang, D.**, Butler, R., Zhang, J., and Seright, R. (2012) Wettability Survey in Bakken Shale Using Surfactant Imbibition, SPE 153853 was published in *Journal of SPE Reservoir Evaluation and Engineering*, Volume 15(6), 695-705.
45. Seright, R, Zhang, G., Akanni, O.O., and **Wang, D.** (2012) A Comparison of Polymer Flooding with In-Depth Profile Modification. *Canadian Petroleum Technology*. September, Volume 51(5), 393-402.

Reports

1. **Gerla, P.J.**, Gbolo, P., and Gorz, K. (2014) Large-Scale Prairie Restoration: Managing for Resilience. U.S. Fish and Wildlife Service, Plains to Prairie Potholes Landscape Conservation Cooperative Report, 150 pages.
2. **Gerla, P.J.** and Whittaker, R. (2012) Evaluation of Water Quality in the Judicial Ditch 66 Watershed During Prairie-Wetland Restoration, Glacial Ridge National Wildlife Refuge, Minnesota. U.S. Fish and Wildlife Service, Environmental Contaminants Research Program Report, 378 pages.

3. Klenner, R, **Gosnold, W.D.**, Heine, J., Severson, M., Hauck, S., Hudak, G., and Fosnacht, D. (2012) New Heat Flow Map of Minnesota Corrected for the Effects of Climate Change and an Assessment of Enhanced Geothermal Resource Systems, NRRI/TR- 2012/01, 109 pp.
4. **Gosnold, W.D.**, Mann, M., and Salehfar, H. (2016) Electric Power Generation from Co- Produced Geothermal Resources, DE-EE0002713, Final Report to DOE-GTO, 42 pp.
5. **Gosnold, W.D.**, Mann, M., and Salehfar, H. (2017) Electric Power Generation from Low to Intermediate Temperature Resources, DE-EE0002254, Final Report to DOE-GTO, 44 pp.
6. Nesheim, T.O., **Nordeng, S.H.**, and Bader, J.W. (2015) Stratigraphic Correlation and Geochemical Analysis of Kukersite (Source Rock) Beds within the Ordovician Red River Formation, Southwestern North Dakota: North Dakota Geological Survey, Geologic Investigations No. 186.
7. Mann, M., and **Gosnold, W.D.** (2017) Distributed Geothermal Power, Final Report, Contract No. R-021-030, NDIC, 47 pp.
8. **Wang, D.**, Zhang, J. (2017) Enhanced Oil Recovery Process Investigation Using Chemical Formulations and Injectivity in Ultra-Tight Sand. Final report submitted to Statoil.
9. **Wang, D.**, **Gosnold, W.D.**, Zhang, J. (2017) Supplement of the Chemical Formulation Study for Oil Extraction and Reuse Part II .
10. **Wang, D.**, **Gosnold, W.D.**, Zhang, J. (2016) Chemical Formulation Study for Oil Extraction and Reuse Part II .
11. **Wang, D.**, Zhang, J. (2016) Enhanced Oil Recovery Process Investigation Using Chemical Formulations and Injectivity in Ultra-Tight Sand. Annual Report submitted to Statoil.
12. **Wang, D.**, Butler, R., Zhang, J. (2015) Surfactant formulation study for enhancing Wattenberg field oil production. Final report submitted to NobleEnergy.
13. **Wang, D.**, **Gosnold, W.D.**, Butler, R., Zhang, J. (2015) Chemical Formulation Study for Oil Extraction and Reuse Part I .
14. **Wang, D.**, Zhang, J., Olatunji, K. (2015) Enhanced Oil Recovery Process Investigation Using Chemical Formulations and Injectivity in Ultra- Tight Sand Annual report submitted to Statoil. (annual report).
15. **Wang, D.**, Butler, R., Zhang, J., Olatunji (2015) Aqueous Liquid Imbibition Laboratory Study for Stimulating Oil Field Production. Final report submitted to CESI.
16. **Wang, D.**, Butler, R., Zhang, J., Olatunji, K. (2014) Enhanced Oil Recovery Process Investigation Using Chemical Formulations and Injectivity in Ultra-Tight Sand). Annual report submitted to Statoil.
17. **Wang, D.**, Zhang, X., Butler, R., Zhang, J. (2014) Wettability Alteration Investigation Using Surfactant Formulation for Shale. Final report submitted to ConocoPhillips.
18. **Wang, D.**, Butler, R., **Gosnold, W.D.**, **LeFever, R.D.**, Mann, M., Weiser, A. Zhang, J. (2013) Enhanced Oil Recovery from the Bakken Shale Using Surfactant Imbibition Coupled with Gravity Drainage. Final report submitted to DOE/RPSEA.
19. **Wang, D.**, Butler, R., **Gosnold, W.D.**, **LeFever, R.D.**, Mann, M., Weiser, A. Zhang, J. (2012) Enhanced Oil Recovery from the Bakken Shale Using Surfactant Imbibition Coupled with Gravity Drainage. Annual report submitted to DOE/RPSEA.

Books

1. **Perkins, D.**, (1st ed. 1998, 2nd ed 2002, 3rd ed 2010) Mineralogy. Prentice Hall.

Book Chapters

1. **Hartman, J.H.**, Butler, R.D., Schumaker, K.K. (G), and Weiler, M.W. (G) (2014) Context, naming, and formal designation of the Cretaceous Hell Creek Formation lectostratotype, Garfield County, Montana, in Wilson, G.P., Clemens, W.A., Horner, J.R., and **Hartman, J.H.**, eds., Through the end of the Cretaceous in the type locality of the Hell Creek Formation in Montana and adjacent areas: Geological Society of America Special Paper 503, 89-121, GSA DR, 89 p.
2. Wilson, G., Clemens, W.A., Horner, J., and **Hartman, J.H.**, eds. (2014) Through the end of the Cretaceous in the type locality of the Hell Creek Formation in Montana and adjacent areas: Geological Society of America Special Paper 503, 392 p.
3. Wilson, G., Clemens, W.A., Horner, J., and **Hartman, J.H.** (2014) Forward, in Through the end of the Cretaceous in the type locality of the Hell Creek Formation in Montana and adjacent areas, in Wilson, G.P., Clemens, W.A., Horner, J.R., and **Hartman, J.H.**, eds., Through the End of the Cretaceous in the Type Locality of the Hell Creek Formation in Montana and Adjacent Areas: Geological Society of America Special Paper 503, p. v-vii.
4. Clemens, W.A., and **Hartman, J.H.** (2014) From T. rex to asteroid impact: Early studies (1901-1980) of the Hell Creek Formation in its type area, in Wilson, G.P., Clemens, W.A., Horner, J.R., and **Hartman, J.H.**, eds., Through the end of the Cretaceous in the type locality of the Hell Creek Formation in Montana and adjacent areas: Geological Society of America Special Paper 503, 1-87.
5. **Hartman, J.H.**, Butler, R.D., Schumaker, K.K., and Weiler, M.W. (2014) Context, naming, and formal designation of the Cretaceous Hell Creek Formation lectostratotype, Garfield County, Montana, in Wilson, G.P., Clemens, W.A., Horner, J.R., and **Hartman, J.H.**, eds., Through the end of the Cretaceous in the type locality of the Hell Creek Formation in Montana and adjacent areas: Geological Society of America Special Paper 503, 89.
6. **Wang, D.** (2013) Polymer Flooding Practice in Daqing. Chapter in Enhanced Oil Recovery Field Case Studies. Elsevier, ISBN-9780123865458, 83-116.

Abstracts

1. Ozotta, O., Kickert, R., **Gerla, P.J.** (2017) Mapping and characterizing groundwater seepage in a North Dakota fen using thermal imaging. Society of Wetland Scientists North Central Chapter Meeting, Fargo, North Dakota.
2. Forward, K., **Gerla, P.J.** (2017) Mapping groundwater discharge along lake margins using satellite and UAV thermal imagery. Minnesota GIS/LIS Consortium, 27th Annual Conference. Bemidji, Minnesota.
3. Hamel, C., **Gerla, P.J.** (2016) Climate adaptation of biodiversity conservation strategies for Manitoba's tall-grass prairie. Adaptation Canada 2016 - National Symposium on Climate Change. Ottawa, Canada.
4. **Gerla, P.J.** (2015) Estimating trends in long-term evapotranspiration for large watersheds. Data-Driven Hydrology Education, Consortium of Universities Allied for Water Research.

5. **Gerla, P.J.** (2015) Assessing the challenges and limitations of reclaiming altered and endangered northern prairie streams. 2015 UCOWR/NIWR/CUAHSI Annual Conference. Las Vegas, Nevada.
6. **Gerla, P.J.** (2013) Resiliency or Irreversibility? Examples of Successes and Failure in Restoring Prairie Hydrology. Grassland Restoration Network Annual Meeting, Columbia, Missouri. Invited Speaker.
7. **Gosnold, W.D.**, Crowell, A.; Keller, Kris, Brunson, Daniel, Tyler, Lindsay, Nwachukwu, Francis, Onwumelu, Chioma, Ogochukwu, Ozotta, Ruben Havsed, and Joachim Karth, 2017. Concept for a Distributed Baseload Binary Power Network, GRC Annual Mtg., Salt Lake City, UT.
8. Ricker, F. and **Gosnold, W.D.**, Characterization of Radiogenic Heat Production from Basement Rocks and Its Relationship to Heat Flow in the Williston Basin and North Dakota, Stanford Geothermal Workshop, Stanford, CA, February 2015.
9. Crowell, A. and **Gosnold, W.D.**, Using the Geothermal Gradient from Oil and Gas BHTs as a Direct Indicator for Subsurface Structure and Geothermal Potential: Nebraska, North Dakota Academy of Science, Grand Forks, ND, April 2013.
10. Crowell, A., and **Gosnold, W.D.**, Recoverable Thermal Energy for Geothermal Power Production in the Denver Basin, SMU Geothermal Conference: Geothermal Energy and Waste Heat to Power Utilizing Oil and Gas Plays, Dallas, TX, March 2013.
11. **Gosnold, W.D.**, Mann, M., and Salehfar, H. (2017) The UND-CLR Binary Geothermal Power Plant, GRC Annual Mtg., Salt Lake City, UT.
12. **Gosnold, W.D.** and Godswill, N. (2017) Heat Flow and Climate Change, GRC Annual Mtg., Salt Lake City, UT.
13. **Gosnold, W.D.**, McLaughlin, S., and Colby, C. (2016) Three- Dimensional Temperature Structure of the Williston Basin, GRC Annual Mtg., Sacramento, CA.
14. Williams, T., Snyder, N., and **Gosnold, W.D.** (2016) Low Temperature Projects Evaluation and Lesson Learned, GRC Annual Mtg., Sacramento, CA.
15. McDonald, M.R., **Gosnold, W.D.**, D, **Nordeng, S.H.**, Preliminary Results of a Heat Flow Study of the Williston Basin Using Temporarily Abandoned Oil Wells, GRC Annual Mtg., 2016. Sacramento, CA.
16. **Gosnold, W.D.**, Crowell,A., **Nordeng, S.H** and Mann, M. (2015) Co- Produced and Low-Temperature Geothermal Resources in the Williston Basin, GRC Annual Mtg., Reno, NV.
17. **Gosnold, W.D.** (2015) Climate Change: Rate Variations During the Past 90 Years and Quantification of Internal Forcing, GSA Abstracts with Programs, v. 47, No. 7, 659.
18. **Gosnold, W.D.**, and Crowell, A. (2014) Heat Flow and Geothermal Research in Mid- Continent of North America, GRC Annual Mtg., Portland, OR.
19. Crowell, J. and **Gosnold, W.D.** (2013) Detecting Spatial Trends in Thermal Conductivity in the Williston Basin, GRC Annual Mtg., Las Vegas, NV.
20. **Gosnold, W. D.**, Barse, K., Bubach, B., Crowell, A., Crowell, J. Jabbari, H. Sarnoski, A., and **Wang, D.** (2012) Co-Produced Geothermal Resources and EGS in the Williston Basin, GRC Annual Mtg., Las Vegas, NV.
21. Crowell, A. and **Gosnold, W.D.** (2013) Utilizing Geophysical Data and GIS to Identify Areas of Interest for Geothermal Power Production: Denver-Julesberg Basin, Colorado, North Dakota GIS Users Conference, Grand Forks, ND.

22. **Gosnold, W.D.**, and Barse, K. (2013) Status of the North Dakota Oil Field Geothermal Projects, SMU Geothermal Conference: Geothermal Energy and Waste Heat to Power Utilizing Oil and Gas Plays, Dallas, TX.
23. Crowell, A. M., and **Gosnold, W.D.** (2013) GIS-Based Geothermal Resource Assessment of the Denver Basin: Colorado and Nebraska, GRC Annual Mtg., Las Vegas, NV.
24. Crowell, A. M., and **Gosnold, W.D.** (2012) Available Thermal Energy in the Denver Basin Dakota Group: Colorado and Nebraska, Presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, CA.
25. Crowell, J., and **Gosnold, W.D.** (2012) Using a Divided Bar Apparatus to Measure Thermal Conductivity of Samples of Odd Sizes and Shapes, Presented at 2012 Fall Meeting, American Geophysical Union, San Francisco.
26. **Gosnold, W.D.**, McDonald, M., Klenner, R., and Merriam, D. (2012) Thermostratigraphy of the Williston Basin, GRC Annual Mtg., Sacramento, CA.
27. Crowell, A., Ochsner, Aaron, and **Gosnold, W.D.** (2012) Correcting Bottom-Hole Temperatures in the Denver Basin: Colorado and Nebraska, GRC Annual Mtg., 2016. Sacramento, CA.
28. Majorowicz, J., **Gosnold, W.D.**, Gray, A., Safanda, J., Klenner, R., and Unsworth, M. (2012) Implications of Post-Glacial Warming For Northern Alberta Heat Flow Correcting For the Underestimate of the Geothermal Potential. GRC Annual Mtg., Sacramento, CA.
29. Crowell, A. M., and **Gosnold, W.D.** (2012) Available Thermal Energy in the Denver Basin Dakota Group: Colorado and Nebraska, Presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, CA.
30. Crowell, J., and **Gosnold, W.D.** (2012) Using a Divided Bar Apparatus to Measure Thermal Conductivity of Samples of Odd Sizes and Shapes, Presented at 2012 Fall Meeting, American Geophysical Union, San Francisco.
31. Jeannotte, T., **Mahmood, T.H.**, **Matheney, R.K.**, and Hou, X. (2017) Phosphorus Export Model Development in a Terminal Lake Basin using Concentration-Streamflow Relationship. American Geophysical Union Annual Meeting, New Orleans LA, abstracts with program.
32. Mahmood, F. N., and **Matheney R. K.** (2017) Effect of silica concentration on diatom's oxygen isotope composition. Proceedings of the North Dakota Academy of Science, v. 71, 36.
33. Van Der Hoeven Kraft, K.J., Hilpert, J.C., Budd, D.A., Gilbert, L.A., McConnell, D.A., **Perkins, D.**, Wirth, K.R., Bykerk-Kauffman, A., Stempien, J.A., and **Matheney, R.K.** (2013) The Interplay Between Student, Instructor, Motivation and Performance: How Does it All Relate? Geol. Soc. Am. Abst. with Prog., v 45, 733.
34. Stempien, J.A., Budd, D.A., Hilpert, J.C., Kraft, K., McConnell, D.A., **Perkins, D.**, and Wirth, K.R. 2013. Defining Patterns of Student Affect in Introductory Geology Courses Across 4,000 Students, 130 Classes, 36 Instructors, and 13 Institutions. Geol. Soc. Am. Abst. with Prog., v 45, 205.
35. Gilbert, L.A., Stempien, J., McConnell, D.A., Budd, D.A., van der Hoeven Kraft, K. J., Bykerk-Kauffman, A., Jones, M.H., Knight, C.C., **Matheney, R.K.**, **Perkins, D.**, and Wirth, K.R. (2012) Not just "rocks for jocks": Who are introductory geology students and why are they here? J. Geosci. Ed., v60, 360-377.
36. Buckley, G.A., and **Hartman, J.H.** (2017) Constraining chronostratigraphic boundaries within the Cretaceous and Paleocene formations of the eastern Crazy Mountains Basin, Montana:

- Geological Society of America Abstracts with Programs (October 22, 2017. Seattle, Washington), v. 49, no. 6, 299944.
37. Hunter, J.P., Honer, N.H., Krause, D.W., and **Hartman, J.H.** (2017) A mid Paleocene mammalian fauna from eastern Montana: Society of Vertebrate Paleontology Program and Abstracts (August 23, 2017. Calgary, Alberta), 133.
 38. **Hartman, J.H.**, Bogan, A.E. (2016) Perspective on nineteenth century continental molluscan studies through a timeline of correlated events and publications What could Western North American paleontologists/geologists potentially conceptualize based on the science of the day?, in Topical Session 95. Museums at the forefront of the history and philosophy of geology II: Geological Society of America Abstracts with Programs (Denver), v. 48, no. 7, paper no. 41-12.
 39. **Hartman, J.H.** (2016) Requiem for (Historic) References. Beyond the traditional documentation of paleo publications: North Dakota Academy of Science, Proceedings (108 annual meeting, Fargo), v. 70, 46.
 40. Illies, M., and **Hartman, J.H.** (2016) Diagnosis of molluscan species of Judith River Formation of north- central Montana: North Dakota Academy of Science, Proceedings (108 annual meeting, Fargo), , v. 70, 15.
 41. Kitowski, S.R., and **Hartman, J.H.** (2016) Discrimination of *Pachydon mactrifomis* (Meek and Hayden) in Paleocene Strata of North Dakota: North Dakota Academy of Science, Proceedings (108 annual meeting, Fargo), v. 70, 17.
 42. **Hartman, J.H.** (2015) Upper Cretaceous Dakota Formation continental mollusks Resurrection of Western Interior Seaway eastern seaboard occurrences, in Paleontology: Ancient Life in Deep Time: Temporal and Geographic Trends in Fossil Distributions: Geological Society of America, Abstracts with Programs (annual meeting, Baltimore, Maryland), Paper 3-9.
 43. Provow, A.W., Boyter, B., **Hartman, J.H.**, Eaton, J.G., and Rafferty, K. (2015) Petrology of Eocene rocks of Antimony and Dry Canyons, southwestern Utah: Geological Society of America, Rocky Mountain Section (67th Annual Meeting), 23 May 2015. Paper No. 21-5, v. 47, no. 6, 41.
 44. **Hartman, J.H.** (2015) Continued sleuthing of problematic continental molluscan taxa The Cretaceous Dakota Formation: North Dakota Academy of Science, Proceedings, v. 69, 41.
 45. Gillikin, D., Goodwin, D., Davidson, M., **Hartman, J.H.** (2014) Constraining riverine $\delta^{13}C$ -DIC using Late Cretaceous and early Paleogene freshwater bivalve mollusks (Unionoidea) from Montana: American Geophysical Union (San Francisco, Fall meeting), PP41-1341.
 46. **Hartman, J.H.**, and McCollor, D.P. (2014) Learning from the past Using old records to gain new insights into the Paleocene Cannonball Formation: Geological Society of America, Abstracts with Programs, v. 46, no. 6, 753.
 47. Beske, J., **Hartman, J.H.**, Krause, D.W., and Rasmussen, D.L. (2014) , Preliminary analysis of the continental molluscan faunule from Devils Pocket, Kootenai Formation, central Montana: North Dakota Academy of Science Proceedings (106 annual meeting, Valley City), v. 68, 8.
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