

## **WILLIAM B. HARRISON, III, Ph.D.**

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### **EDUCATION**

Ph.D. - University of Cincinnati - 1974 - Geology, Paleontology, Sedimentology  
M.A. - University of South Florida - 1969 - Geology, Sedimentology  
B.A. - University of South Florida - 1968 - Geology, minor in Biology

### **PROFESSIONAL EXPERIENCE**

1983-present – Principal Research Scientist and Director, Michigan Geological Repository for Research and Education, Michigan Geological Survey, Geosciences Department, Western Michigan University  
2004 – present – Professor Emeritus Geosciences, Western Michigan University  
1990 – 2003 - Professor of Geology, Western Michigan University  
1982 – 1990 - Associate Professor of Geology, Western Michigan University  
1973 – 1982 - Assistant Professor of Geology, Western Michigan University

### **RECENT PUBLICATIONS**

Grammer, G.M., **Harrison**, W.B., III, Barnes, D.A., and Voice, P., 2018, Introduction to the Paleozoic Stratigraphy and Resources of the Michigan Basin, in Grammer, G.M., Harrison, W.B., III, and Barnes, D.A., eds., Paleozoic Stratigraphy and Resources of the Michigan Basin: Geological Society of America Special Paper 531, p. 1–8 (in press)

Voice, P.J., **Harrison**, W.B. III, and G.M. Grammer, 2018, A Reevaluation of the Burnt Bluff Group (Lower Silurian, Michigan Basin) from the Subsurface and Outcrop Data: Development of a Time-Transgressive Depositional Model, in Grammer, G.M., Harrison, W.B., III, and Barnes, D.A., eds., Paleozoic Stratigraphy and Resources of the Michigan Basin: Geological Society of America Special Paper 531, p. (in press)

Trout, J.L, Grammer, G.M. and W.B. **Harrison** III, 2018, Windward vs. Leeward Variability of Faunal Distribution in a Silurian (Wenlock) Pinnacle Reef Complex – Ray Reef, Macomb County, Michigan, in Grammer, G.M., Harrison, W.B., III, and Barnes, D.A., eds., Paleozoic Stratigraphy and Resources of the Michigan Basin: Geological Society of America Special Paper 531, p. (in press)

**Harrison**, W.B., III, and Voice, P.J., 2018, Evaporite facies of the Michigan Basin, in Grammer, G.M., Harrison, W.B., III, and Barnes, D.A., eds., Paleozoic Stratigraphy and Resources of the Michigan Basin: Geological Society of America Special Paper 531, p. (in press)

Voice, Peter and **Harrison** III, William B., 2014, Paleozoic Geology of Central Upper Peninsula of Michigan, Michigan Basin Geological Society Field Trip Guidebook, 2014, Lansing, Michigan, 111 p.

**Harrison**, William B. III, and G. Michael Grammer, 2012, The Great American Carbonate Bank in the Central Michigan Basin, in J. R. Derby, R. D. Fritz, S. A. Longacre, W. A. Morgan, and C. A. Sternbach, eds., The Great American Carbonate Bank: The geology and petroleum potential of the Cambrian – Ordovician Sauk sequence of Laurentia: AAPG Memoir 98, p. 1 – 14.

**Harrison**, William B. III, G. Michael Grammer, and David A. Barnes, 2009, Reservoir characteristics of the Bass Islands dolomite in Otsego County, Michigan: Results for a saline reservoir CO<sub>2</sub> sequestration demonstration, Environmental Geosciences, v. 16, no. 3, pp. 139–151

**Harrison**, William B., III, 2009, Chapter 10 – Hydrocarbon Resources. in Geography and Geology of Michigan. Schaeztl, R.J., Darden, J.T., and D. Brandt. (editors). Pearson Custom Publishers, Upper Saddle River, NJ.

Tolle, Brian, Larry Pekot, David Barnes, Mike Grammer, William **Harrison**, 2008, EOR Potential of the Michigan Silurian Reefs Using CO<sub>2</sub>, Society of Petroleum Engineers, SPE 113843-PP, p. 1-8

Grammer, G. M., D. A. Barnes, W. B. **Harrison III**, A. E. Sandomierski, and R. G. Mannes, 2008, Practical synergies for increasing domestic oil production and geological sequestration of anthropogenic CO<sub>2</sub>: An example from the Michigan Basin, in M. Grobe, J. C. Pashin, and R. L. Dodge, eds., Carbon dioxide sequestration in geological media—State of the science: AAPG Studies 59, p. 1– 18.

Barnes, D. A., W. B. **Harrison III**, and A. Wahr, 2008, Assessment of regional geological carbon sequestration potential in Upper Silurian to Middle Devonian strata of the Michigan Basin, in M. Grobe, J. C. Pashin, and R. L. Dodge, eds., Carbon dioxide sequestration in geological media—State of the science: AAPG Studies 59, p. 1–26.

Gillespie, R., **Harrison**, W. B., III and Grammer, G.M., 2007, Geology of Michigan and the Great Lakes Thompson Custom Publishing supplement for Introductory Geology Textbooks 40 p.

### **CURRENT and RECENT RESEARCH FUNDING**

- 2017-2018 Contract from State Map funded by USGS to map the bedrock surface lithology and topography and determine the glacial drift thickness in Wayne County, Michigan \$24,935
- 2017-2018 Contract with Battelle Memorial Institute funded by USDOE, CarbonSAFE team to address implementation of a large-scale CO<sub>2</sub> storage complex in the Northern Michigan Basin \$52,957
- 2013-2018 Contract with Battelle Memorial Institute funded by USDOE, Phase III Battelle Carbon Sequestration Research in the Northern Michigan Basin \$720,000.
- 2017-2018 Grant from U.S. Geological Survey for data rescue, inventory and metadata preparation for National Geological and Geophysical Data Preservation Program. \$37,289.
- 2015-2016 Grant from U.S. Geological Survey for data rescue, inventory and metadata preparation for National Geological and Geophysical Data Preservation Program. \$34,901
- 2014-2015 Grant from U.S. Geological Survey for data rescue, inventory and metadata preparation for National Geological and Geophysical Data Preservation Program. \$29,017
- 2013-2014 Grant from U.S. Geological Survey for data rescue, inventory and metadata preparation for National Geological and Geophysical Data Preservation Program. \$32,549
- 2010-2013 Assessment of Michigan Geothermal Energy Data from shallow and deep bore holes, Michigan Contribution to National Geothermal Data System, Funded by USDOE through the Arizona Geological Survey, \$297,943
- 2009-2012 Sequence Stratigraphy and Reservoir Characterization of the Trenton/Black River Hydrothermal Dolomite Interval, Michigan Basin, P.I. with co-P.I. G. M. Grammer, Research Partnership to Secure Energy for America (RPSEA), \$393,369.

### **RECENT HONORS AND AWARDS**

- 2012 – Distinguished Alumni Award from the University of South Florida, Department of Geology
- 2012 – Distinguished Alumni Award from University of Cincinnati, McMicken College of Arts and Sciences for Developing MGRRE at WMU
- 2010 – John T. Galey Award for lifetime service achievement to Eastern Section of American Association of Petroleum Geologists
- 2010 – Public Service Award from the American Association of Petroleum Geologists