

CURRICULUM VITAE

G. Michael Grammer, Ph.D.
Professor and Chesapeake Energy Chair of Petroleum Geology
Boone Pickens School of Geology
Oklahoma State University

EDUCATION

- Post-Doctoral Fellow, University of Miami, Comparative Sedimentology Laboratory 1991-93
Project: *High Resolution Sequence Stratigraphy and Reservoir Characterization of a Pennsylvanian Carbonate Succession, Paradox Basin, Utah*, with Gregor P. Eberli
- Ph.D. Marine Geology/Carbonate Sedimentology 1991
University of Miami, Rosenstiel School of Marine and Atmospheric Sciences
Dissertation: *Formation and Evolution of Quaternary Carbonate Foreslopes, Tongue of the Ocean, Bahamas*
Advisor: Robert N. Ginsburg
- M.S. Geology/Sedimentology 1983
Southern Methodist University, Dallas, TX
Thesis: *Depositional History and Diagenesis of the Viola Limestone (Ordovician), Southeastern Arbuckle Mountains, Oklahoma*
- B.A. Geology 1980
University of South Florida, Tampa, FL

MAJOR RESEARCH INTERESTS

- 3-D characterization and modeling of carbonate depositional systems through the integration of high-resolution outcrop and subsurface data combined with comparative sedimentology from modern environments.
- Interplay of diagenesis and petrophysical signatures of carbonates within a sequence stratigraphic framework.
- Integration of sedimentology, diagenesis, and high-resolution sequence stratigraphy to evaluate the effects of variable sea level change on the depositional record of carbonate and mixed carbonate/siliciclastic depositional systems.

HONORS AND AWARDS

- 2004-2017 **Associate Editor** – Journal of Sedimentary Research
- 2015 **A.I. Levorsen Award**, AAPG Mid-Continent for paper co-authored with Buddy Price (OSU M.S.)
- 2015 **Planalp Award for Best Poster**, AAPG Mid-Continent for paper co-authored with Taylor Thompson (OSU M.S.)
- 2013 **Gordon I. Atwater Best Poster Award**, Gulf Coast Association of Geological Societies, with Jason Asmus
- 2011 **WMU Faculty Service Award**, Department of Geosciences
- 2010 **Schramm Lecturer**, University of Nebraska

2009	WMU Emerging Scholar Award , for faculty in their first decade at WMU who have developed an international reputation as a leader in their field
2007	WMU Deans Faculty Appreciation Award , College of Arts and Sciences, for exemplary research and service to the College
2006	AAPG Robert H. Dott, Sr. Memorial Award for best Special Publication (Memoir 80, lead editor with co-editors P.M. Harris and G.P. Eberli)
2006	AAPG Vincent E. Nelson Memorial Best Poster Award with A.E. Sandomierski and W. B. Harrison, 2005 Eastern Section of AAPG
2007	Schramm Lecturer , University of Nebraska
2004/2005	President – Michigan Basin Geological Society
2002/2003	AAPG Distinguished Lecturer (United States, Canada and Mexico)
2000	Elected to the Texaco Fellows Mentoring Excellence in Technology Program (top 1% of technology leaders selection criteria)
1998	Outstanding Instructor Award - Texaco Upstream Technology (UT)
1998	General Manager's Outstanding Individual Contributor Award - Texaco UT
1998	Texaco Star Ambassador Award for Outstanding Technical Contributions
1998	Outstanding Contributor Award - Texaco North American Producing
1998-present	Adjunct Professor , University of Miami, RSMAS
1997	Junior Faculty Development Award , University of Miami/RSMAS
1996	Elected to University of Miami Graduate School Faculty , University of Miami
1996	Research Council Award , University of Miami
1994	Keynote Presenter , AAPG Internat'l. Hedberg Conference, Paris, France
1993	Best Poster Award , Geological Society of America Annual Meeting
1987-1990	Doctoral Fellowship , University of Miami/RSMAS
1983	Outstanding Masters Thesis , Institute for the Study of Earth and Man, Southern Methodist University
1983	First Place, Graduate Student Paper Contest , American Association of Petroleum Geologists Annual Meeting
1981	Mobil Foundation Geology Field Course Scholarship

RESEARCH FUNDING

Funded

2017-2018	<i>How Pore Distribution effects Seismic Velocities</i> , co-PI with P. Jaiswal, \$50,000, Devon Energy
2017	<i>Description of Mississippian and Woodford in Core, Collins 15-9-5: Depositional Facies, Fracturing and Pore Architecture</i> , co-PI with J. Puckette, LINN Energy \$20,000
2016-2017	<i>Stratigraphy of Mississippian Strata in Central and Eastern Oklahoma</i> , co-PI with J. Puckette, \$401,344, Devon Energy
2012-2016	<i>Reservoir Distribution and Characterization of Mid-Continent Mississippian Carbonates – A Major Unconventional Resource Play</i> , P.I. , with Co-P.I.'s J. Puckette, D. Boardman, J. Gregg, and P. Jaiswal, Industry Consortium, \$1,130,000.

- 2014-2016 *Reservoir Distribution and Characterization of Mid-Continent Mississippian Unconventional Carbonates for Newfield Energy, PI D. Boardman, P.I. with co-P.I.'s, J. Puckette, J. Pashin, and T. Quan, \$500,000.*
- 2016 Core-based sequence stratigraphy and reservoir characterization, Mississippian mixed carbonates/siliciclastics, **co-P.I.** with J. Puckette, LINN Energy **\$20,000**
- 2014-2016 Reservoir Characterization and Sequence Stratigraphy of Mississippian Unconventional Carbonates, Devon Energy, **co-P.I.** with J. Puckette, **\$200,000.**
- 2009-2011 *Sequence Stratigraphy and Reservoir Characterization of the Trenton/Black River Hydrothermal Dolomite Interval, Michigan Basin, P.I. with co-P.I. W.B. Harrison, Research Partnership to Secure Energy for America (RPSEA), \$393,369.*
- 2009-2012 MICHCARB – A Resource Center for Geological Carbon Sequestration Research, Education and Outreach in Michigan, Department of Energy Earmark, PI D. Barnes, **co-PI's** D. Hampton, M. Grammer and B. Harrison, **\$601,158**
- 2011 Core Kids – Outreach in Natural Resources for K-12 Teachers and Students, **\$60,000**, Consumers Energy, **co-P.I.** with S. Grammer.
- 2008-2010 *Energy and Natural Resources K-12 Outreach Program, DTE Energy, \$195,000, P.I. with co-P.I. S.F. Grammer*
- 2008-2009 *CoreKids – Bringing Geoscientists and Geology Resources into the K-12 Environment, Consumers Energy, \$50,000, P.I. with co-P.I. S. Grammer*
- 2007 *Software donation from Schlumberger (entire Petrel suite for 3-D data manipulation and modeling), P.I., \$1,200,000*
- 2006-2008 *Geosciences Energy and Natural Resources Learning Center – Michigan Geological Repository for Research and Education (MGRRE), \$577,000, P.I., Congressional Earmark, with co-P.I.'s W.B. Harrison and M. Sultan..*
- 2006-2008 *Continuation of Satellite PTTC Facility in Michigan, Michigan Basin Core Research Laboratory and Department of Geosciences, WMU, P.I., DOE, \$45,000*
- 2005-2009 *Midwest Region Carbon Sequestration Partnership; Phase II. Subcontract to Battelle Memorial/ Department of Energy/National Energy Technology Laboratory, \$292,754, co-P.I. with D. A. Barnes (P.I.) and W.B. Harrison.*
- 2004-2007 *Establishing the Relationship between Fracture-related Dolomite and Primary Rock Fabric on the Distribution of Reservoirs in the Michigan Basin, DOE, P.I. \$1,033,475, P.I., with co-P.I.'s D.A. Barnes, W.B. Harrison and R. Gillespie.*
- 2004-2005 *Midwest Regional Carbon Dioxide Sequestration, co-P.I., with D. A. Barnes (P.I.) and W.B. Harrison (co-P.I.), Department of Energy, \$99,969.*
- 2004-2005 *Continuation of Satellite PTTC Facility in Michigan, Michigan Basin Core Research Laboratory and Department of Geosciences, WMU, P.I., DOE, \$70,577*
- 2003 *Upgrading Western Michigan University's Petrographic Capability in Sedimentology, received donation of approximately \$30,000 in the way of petrographic microscopes and cameras from ChevronTexaco.*
- 1997-99 *High Resolution Sequence Stratigraphy and 3-D Characterization of the Mississippian Madison Formation through the Integration of Outcrop and Subsurface Data, Madden Deep Field, Wind River Basin, Wyoming, P.I., Industrial Consortium, \$155,000.*
- 1995-98 *High Resolution Stable Isotopic Fluctuations in Tropical Marine Waters Determined from Inorganic Aragonite Cements: Implications to the Younger Dryas and other High-Frequency Climatic Events, P.I. (with co-P.I.'s D. F. McNeill and P. K. Swart), NSF - Global Change Program, \$208,455.*
- 1997-98 *A Field-Emission Environmental Scanning Electron Microscope: New Frontiers in the Electron Imaging for Biological and Geological Research, co-P.I. with R. P. Reid, P. L. Blackwelder, E. C. McKinney, and P. J. Walsh, National Science Foundation, MRI Program/OSTI, \$460,000.*

- 1997-98 *Software grant for geophysical and geological reservoir characterization from Landmark Graphics Corporation, Global University Grant Program, co-P.I. with C. A. Scholz and G. P. Eberli, value approx. \$400,000.*
- 1994-97 Industrial Associates Program of the Comparative Sedimentology Laboratory: applied sedimentology, stratigraphy, geochemistry, and geophysics for petroleum exploration and production, **co-P.I.** with G.P. Eberli, D. F. McNeill, and P. K. Swart. **\$168,000** per year.
- 1996-97 *Cyclostratigraphic Correlation and Facies Partitioning of Shoreface Sands in a Cretaceous Mixed Carbonate/Siliciclastic Depositional System, Offshore Angola, co-P.I. (with G. P. Eberli), Chevron Overseas Petroleum, \$25,000.*
- 1996-97 *High Resolution Lateral Variability in a Mixed Carbonate/Siliciclastic Sedimentary System - Applications to Natural Resource Development, P.I., University of Miami, Research Council Award, \$4,930.*
- 1995-97 *Acquisition of South Florida Holocene Facies Cores for Educational Materials, P.I., Exxon Production Research, \$7300.*
- 1995-96 *Lateral and Vertical Distribution of Marine Cements along the Margins of Carbonate Platforms: Implications for Reservoir Modeling - A Pilot Study, P.I., Shell Research (The Netherlands), \$8000.*
- 1995-96 *Intra-annual, Inter-annual, Decadal and Centennial Climate Variations as Recorded in the Skeletons of Sclerosponges in the Eastern Bahamas and Caribbean, (co-P.I. with D. F. McNeill and P. K. Swart), NOAA National Undersea Research Program, \$20,302.*
- 1995 *Workshop on the Application of High-Resolution Outcrop to Subsurface Sequence Stratigraphy to Exploration and Production Problems, (co-P.I. with G. P. Eberli), Elf Aquitaine, Paris and Pau, France, \$23,000.*
- 1995 *Proposal and Pilot Study for Developing an Integrated Multidisciplinary Reservoir Characterization Model of Gas-Prone, Cyclic Carbonate Reservoirs, P.I., (with co-P.I., Gregor Eberli), Intera Information Technologies, \$5000.*
- 1993-94 *Influence of Rapid Cementation and Sea Level Change on Windward Platform Margins, Great Bahama Bank, (co-P.I. with D. F. McNeill and R. N. Ginsburg), NOAA National Undersea Research Program, \$15,000.*
- 1992 *Characterization of Sedimentary Processes along an Open Windward Margin, Lee Stocking Island, Bahamas, (co-P.I. with R.N. Ginsburg and D.F. McNeill), NOAA National Undersea Research Program (NURP), \$11,500.*
- 1990 *Post-Glacial Evolution of Leeward Platform Margins, Tongue of the Ocean, Bahamas, with R.N. Ginsburg (P.I.), NOAA/NURP, \$48,000.*

PROFESSIONAL AND TEACHING EXPERIENCE

2012-present Boone Pickens School of Geology, Oklahoma State University
 Director of Petroleum Geoscience for the BPSG
 Classes taught: Carbonate Depositional Systems (GEOL4990/5990); Advanced Carbonate Systems and Reservoir Characterization (GEOL 6363); Sequence Stratigraphy (GEOL 5383), Principles of Stratigraphy and Sedimentation (GEOL 3034), Evolution of the Earth (GEOL 1224)

Industry Instructor:

- Teach classes worldwide for PetroSkills (Integrated Carbonate Reservoir

- Characterization (ICR) and Carbonate Reservoirs (PCR)
- Lead Modern Carbonates Field Seminar to the Bahamas for multi-national petroleum companies

2002-2012 Department of Geosciences, Western Michigan University
 Classes Taught: Earth Studies (GEOS 1000), Physical Geology for majors (GEOS 1300), Historical Geology (GEOS 1310), Sedimentation and Stratigraphy (GEOS 4350), Carbonate Sedimentology and Stratigraphy (GEOS 6460), and Advanced Stratigraphy – Sequence Stratigraphy (GEOS 6110), Carbonate Petrology (GEOS 6500). Undergraduate Advisor – Geology major and minor (through 2007)

Industry Instructor: Co-leader of AAPG Field Seminar “Sequence Stratigraphy and Reservoir Distribution in a Modern Carbonate Platform” 1998-2012; Co-leader (2007-2008) of Nautilus International Field Course “Reservoir Geology and Modeling of a Carbonate Succession: High-Frequency cycles of the Pennsylvanian of the Paradox Basin, Utah”; Co-Instructor (2006-2008) PTTC Workshop “Carbonate Reservoir Characterization”

2005-2007 Interim Director – Michigan Geological Repository for Research and Education, Department of Geosciences, Western Michigan University.
 Oversee facility, develop funding models and guide research and K-12 Outreach programs with 4 full time faculty, 3 collaborating faculty, 6-8 graduate students and 10-15 undergraduates.

1997-2002 Senior Research Associate and Technical Advisor, Reservoir Characterization Group, Texaco and ChevronTexaco Upstream Technology; provide consultation, technical support, mentoring and leadership for Texaco and ChevronTexaco carbonate operations worldwide. Specialized in the worldwide application of integrated sedimentology and stratigraphy to 3-D modeling of carbonate systems by combining modern and ancient analogs with sequence stratigraphy for better reservoir characterization.

Instructor – Texaco and ChevronTexaco Upstream Technology; instructor for in-house courses on: 1) carbonate sequence stratigraphy and seismic sequence stratigraphy; 2) carbonate depositional environments; 3) reservoir management; 4) field courses to modern and ancient carbonate and mixed carbonate/siliciclastic depositional environments; and 5) Co-leader for AAPG Modern Carbonates Field Seminar (Bahamas) - "Sequence Stratigraphy and Reservoir Distribution in a Modern Carbonate Platform".

1995-1997 Research Assistant Professor, Comparative Sedimentology Laboratory, Division of Marine Geology and Geophysics, University of Miami, RSMAS
 *Funded research projects included: 1) integrated high-resolution sequence stratigraphy using outcrop and subsurface data for regional stratigraphy, basin analysis, and 3-D characterization of carbonate and mixed carbonate/siliciclastic depositional systems (two projects: Paradox Basin and Wind River Basin); 2) experimental determination of the growth rates of marine carbonate cements; and 3) use of stable isotopes (C and O) in Pleistocene marine carbonate cements to correlate with the deep sea skeletal record of high frequency climatic events in tropical oceans.

*Instructor and co-leader (1987-97) for field workshops and seminars for industry and academic geologists to South Florida, the Bahamas, Belize, and the Paradox

Basin region (1992-present) of southwestern USA.

*Guest lecturer (1991-97) for UM graduate courses: topics included general sedimentology, mechanics of mass flow deposits, and carbonate sedimentology and diagenesis.

*Senior thesis advisor; participant in University of Miami's Undergraduate Mentor Program; and member of 3 Ph.D. dissertation committees.

- 1996 Lecturer, Florida Atlantic University, Davie, FL
Taught upper level course in "Coastal and Marine Science and Management" for Geology and Marine Science majors with "excellent" student evaluations.
- 1994-97 Consulting Specialist, Elf Aquitaine (Field and Short Courses); Chevron Overseas Petroleum, Inc. (Angola); Shell International Exploration and Production B. V. (Field Courses); Texaco Exploration, Denver; (Paradox Basin, U.S.A.)
- April 1994- Senior Research Associate, Division of Marine Geology and Geophysics,
May 1995 University of Miami, Rosenstiel School of Marine and Atmospheric Science.
- 1992- Post-Doctoral Fellow (University of Miami/RSMAS)
1994 Sequence stratigraphic analysis of a Pennsylvanian mixed carbonate/siliciclastic system through the integration of outcrop and subsurface data, Paradox Basin, Utah (with G. P. Eberli).
- 9/87-12/91 Doctoral Fellow (University of Miami/RSMAS)
- 1984-1987 Sedimentologist, Applied Geological Laboratory, Texaco Inc., Denver, CO
1. Sedimentologic and diagenetic interpretation and evaluation of carbonate and clay-rich siliciclastic reservoirs. Author of over 60 in-house technical reports.
2. Technical liaison between geologic and engineering staff for the evaluation of microporosity on wireline log signatures and reservoir deliverability.
3. Instructor for Central Exploration Division Well-Site Geology School.
Specialized in the evaluation of reservoir quality, identification of type and amount of hydrocarbons present and geophysical logging techniques.
4. Instructor for Texaco Inc. school on Formation Damage specializing in the analysis of porosity and permeability in reservoir rocks and the effects of various introduced fluids in enhancing or reducing reservoir deliverability.
- 1983-1984 Texaco USA, Denver, CO
1. Development Geologist responsible for the geologic development of several oil and gas fields in the Rocky Mountain and Mid-Continent regions.
2. Initiated and moderated weekly meetings for geologists and engineers to discuss various topics of interest to petroleum and production geology.
- 1982-1983 Department of Geological Sciences, Southern Methodist University
Head Teaching Assistant responsible for the coordination of Physical Geology laboratories being taught by myself and eight other teaching assistants.
- 1981-1982 Department of Geological Sciences, Southern Methodist University
Teaching Assistant responsible for teaching 3-4 Physical Geology laboratories per week.

- 1980 Department of Geology, University of South Florida
Research Assistant (undergraduate) for R. A. Davis Jr. working on the stratigraphy and morphologic development of Holocene barrier islands.
- 1979-1980 United States Geological Survey, Tampa, FL, Hydrogeologist (Cooperative Education Program)
- 1978-1979 Hillsborough County Environmental Protection Commission, Tampa, FL, Environmental Scientist (Cooperative Education Program)

MARINE AND SHIPBOARD EXPERIENCE

- 1993-95 Geologist/Sedimentologist, Influence of Rapid Cementation and Sea Level Change on Windward Carbonate Platform Margins, submersible operations, Exuma Sound, 25 days.
- 1992 Geologist/Sedimentologist, Quaternary High Resolution Sequence Stratigraphy of the Mixed Carbonate/Siliciclastic Margin of Belize, C.A. (joint project between the University of Miami and Rice University combining single-channel seismic acquisition with piston coring and vibra-coring), 24 days.
- 1990 Chief Scientist, Evolution of Bahamian Foreslopes, submersible operations, NOAA Nat'l. Undersea Research Program, 9 days.
- 1990 Geologist, Bahamas Deep-Drilling Project, core analysis, 15 days.
- 1989 Scientific Advisor, NOAA Field Test of Harbor Branch SCOOP ROV, Little Bahama Bank, Bahamas, 4 days.
- 1988 Scientist, Interdisciplinary Research on Slope Processes, Bahamas, submersible operations, NOAA National Undersea Research Program, 8 days.

INVITED PRESENTATIONS

- *Using Comparative Sedimentology to Unravel the Dynamics of Carbonate Slope Deposits*, University of Texas at Austin, Feb. 2017
- *An Overview of Carbonate Reservoir Characterization*, Repsol, Venezuela, Nov. 2016
- *Stratigraphic Control on the Lateral Distribution of Hydrothermal Dolomites away from Major Fault Zones, Albion-Scipio Trend, Michigan Basin*, University of Oklahoma, Oct. 2015
- *A Submersible Tour along the Margins of Great Bahama Bank and Insight into Carbonate Slope Development and Evolution*, University of Oklahoma, Oct. 2015
- *A general overview of the OSU Mississippian Research Consortium*, University of Tulsa, Oct. 2014
- *Recent Hydrocarbon-Industry Growth and Development in the Boone Pickens School of Geology*, Chesapeake Energy OSU Alumni Association, June 2014
- *Stratigraphic Control on the Distribution of Hydrothermal Dolomite*, Tulsa Geological Society, May 2014
- *An Integrated Approach to Carbonate Reservoir Characterization*, Fort Worth Geological Society, April. 2014
- *An Integrated Approach to Carbonate Reservoir Characterization*, Abilene Geological Society, Feb. 2014
- *Mississippian Play in the Mid-Continent and Unconventional Resource Plays around the U.S.*, OSU Spears School of Business, OSU Energy Midstream and Marketing Program, Dec. 4-6, 2013.

**An Integrated Approach to Carbonate Reservoir Characterization*, Tulsa Geological Society, Feb. 2013

**Stratigraphic Control on the Distribution of Hydrothermal Dolomite*, Oklahoma State University, Nov. 2013

**Carbonate Sequence Stratigraphy and Reservoir Characterization*, Shramm Lecturer, 2-day workshop and 1 week field trip, University of Nebraska, Lincoln, 2010

**An overview of Hydrothermal Dolomite Reservoirs from around the world*, Universidade Federal do Paraná Curitiba, Brazil, 2009

**Exploration and Production Scale Reservoir Characterization of Hydrothermal Dolomite Reservoirs*, Petrobras Exploration and Petrobras R&D, Rio de Janeiro, Brazil, 2009

**Three-Dimensional Modeling and Reservoir Characterization of Silurian (Niagaran) Reefs in the Michigan Basin*, PTTC annual meeting, Mt. Pleasant, MI, 2009

**Sequence Stratigraphy and Reservoir Characterization of Silurian (Niagaran) Pinnacle Reefs in the Michigan Basin – How a little bit of science may help to find a whole lot of oil*, Oklahoma State University, 2008

**Reservoir characterization of Trenton/Black River Hydrothermal Dolomite Reservoirs and Silurian (Niagaran) Reef Reservoirs, Michigan Basin*, PTTC, Mt. Pleasant, MI, 2008

**Carbonate Sequence Stratigraphy and Reservoir Characterization*, Shramm Lecturer, University of Nebraska, Lincoln, 2007

**An overview of Hydrothermal Dolomite (HTD) Reservoirs with examples from the Michigan Basin*, Petrobras Exploration and Petrobras R&D, Rio de Janeiro, Brazil, 2006

**Introduction to Carbonate Reservoir Characterization*, Universidade Federal do Paraná Curitiba, Brazil, 2006

**Can Science Really Help us Find More Oil*, PTTC, 2006

**Carbonate Reservoir Characterization – A new look at a Niagaran Pinnacle Reef*, Petroleum Technology Transfer Council (PTTC), 2005

**Recent Advances in Carbonate Sedimentology and Stratigraphy Applied to the Silurian Niagara Group, Michigan Basin*, State of Michigan DEQ and DNR, 2005

**A Virtual Field Trip to the Bahamas - An Introduction to the Value of Modern Analogs to Understanding Ancient Carbonate Systems*, Michigan Basin Geol. Soc., 2005

**Can Science Really Help Us to Find More Oil and Gas?*, Michigan Oil and Gas Association, 2005.

**Predicting the Distribution and Geometry of Carbonate Platform Reservoirs – Insight from the Integration of Modern and Ancient Analogs*, AAPG Distinguished Lecture, presented to 19 institutions and organizations in U.S., Canada, and Mexico, 2002-2003.

**Formation and Evolution of Steep Carbonate Platform Margins – Lessons learned from the Modern*, invited paper for special session on Carbonate Platform margins, GSA, Boston.

**Comparative sedimentology in the new millenium: Recent advances and future directions*, University of Texas at Austin, April 2000.

**Geology and Petroleum: Applications of Earth Science in the Oil and Gas Industry*, Rider University, Lawrenceville, NJ, Sept. 1999, AAPG - VPG Program.

**Geology and Petroleum: Applications of Earth Science in the Oil and Gas Industry*, Mary Washington College, Fredericksburg, VA, Nov. 1998, AAPG - VPG Program.

**Application of Integrated Reservoir Characterization for Enhancing the Predictability of Carbonate Reservoirs*, KIO/KOS, Aksai, Kazakhstan, Feb. 1998

**Application of Comparative Sedimentology to Enhance the Understanding of Subsurface Hydrogeological Problems*, AWG, Nov. 1996, Tampa, FL.

**Distribution and Geometries of Platform-Carbonate Reservoirs - Insight from Modern Counterparts in the Bahamas*, with co-author R. N. Ginsburg, Oklahoma Geol. Survey and DOE sponsored Workshop on Platform Carbonates in the Southern Midcontinent, March 1996.

**Application of High Resolution Sequence Stratigraphy in Developing an Exploration and Production Strategy for a Mixed Carbonate/Siliciclastic System (Carboniferous), Paradox Basin*,

U.S.A., Tour Elf, La Defense, Paris and Elf Research Center, 1995, Pau, France.

**Understanding the Distribution and Architecture of Algal Mound Reservoirs through Outcrop based High-Resolution Sequence Stratigraphy: An Example from the Paradox Basin, USA*, 1995 AAPG International Conference, Sept. 1995, Nice, France.

**Correlation of the $\delta^{18}\text{O}$ Composition of Marine Aragonite Cements to the Skeletal Record during the Latest Deglaciation*, SEPM Congress on Sedimentary Geology, 1995, FL

**Laterally Discontinuous Reservoir Facies Controlled by Multiple Orders of Sea Level Change, Paradox Basin, Utah, U.S.A.*, Keynote paper presented at the AAPG Hedberg Conference, Sept. 1994, Paris, France.

**Timing of Deposition and Failure of Steep Carbonate Slopes, Tongue of the Ocean, Bahamas*, presented in SEPM session on Carbonate Slope Failure and Depositional Processes at 1991 AAPG/SEPM Annual Convention.

**Evolution of Bahamian Foreslopes: Highstand vs. Lowstand Deposition*, University of Vermont Lecture Series in Geology, March 1991.

**Evolution of Quaternary Carbonate Foreslopes, Tongue of the Ocean, Bahamas*, Miami Geological Society, September, 1990.

**Depositional History and Diagenesis of the Viola Limestone (Ordovician), Arbuckle Mountains, Oklahoma*, Dallas Geological Society, 1983.

STUDENT SUPERVISION

Post-Doctoral Advisor (OSU)

Yasser Salama, Diagenesis and Chemostratigraphy of Eocene and Pleistocene Coral Reefs in the Sinai, Egypt

Ph.D. Advisor (OSU)

Beth Vanden Berg, Combining Pore Architecture and Sonic Velocity Response to Predict Reservoir Quality in complex Carbonate Reservoirs, Best Poster Award, 2014 AAPG Student Expo, Houston, OCGS Foundation Fellowship, AAPG Grants in Aid, internship summer 2014, Occidental Petroleum, Houston, TX

Ahmed El Belasy, Sedimentology and Sequence Stratigraphy of the Coniacian-Santonian Matulla Formation, West Sinai, Egypt, SEPM Best Student Poster Award, AAPG/ACE/SEPM meeting, Denver, co-advisor with Mansoura University, Egyptian Channel Program

Yulun Wang, Integrated Reservoir Characterization of Mississippian Unconventional Carbonates, started Fall 2014

Ibukun Bode, Using Nuclear Magnetic Response and Sonic Velocity as a Proxy for Predicting Pore Systems and Related Permeability in Unconventional Carbonates, started Fall 2014

Jamar Bynum, Sequence Stratigraphic Controls on Lower to Middle Carboniferous Siliciclastic Deposition in STACK, North-Central, Oklahoma, USA

Mark Sutcliffe, Resolving Stratigraphic in the Mississippian of the Mid-Continent, USA

M.S. Thesis Advisor (current OSU)

Alejandra Santiago Torres, Significance of Microbialites in Reservoir Development and Evolution in Silurian Reef Slope Deposits at Pipe Creek Jr. Quarry, Indiana, and the Michigan Basin

Maria Reistoffer, Thesis topic under development, started Fall 2017

Mckensie Mitsdarffer, Thesis topic under development, started Fall 2017

C.J. Appelseth, Reservoir Characterization of Mississippian Strata in Central and Eastern Oklahoma Utilizing Core and Wireline Logs

Elizabeth Elium, Combining Sequence Stratigraphy with Artificial Neural Networks to Enhance Regional Correlation and Determination of Reservoir Quality in the "Mississippian Limestone" of the Mid-Continent, USA

James Karsten, Reservoir Characterization and Modeling of Silurian Reef Slope Deposits, Michigan Basin

Completed (OSU)

Lara Jaeckel, 2016 *High Resolution Sequence Stratigraphy and Reservoir Characterization of Mid-Continent Mississippian Carbonates in Northwestern Oklahoma and South Central Kansas*, accepted full time position with Chesapeake Energy.

Ashley Dupont, 2016, *High Resolution Chemostratigraphy in the "Mississippian Limestone" of north-central Oklahoma*, accepted full time position with EOG Resources

Scott Shelley, 2016, *High Resolution Sequence Stratigraphy Characterization and 3-D Reservoir Modeling of Mississippian Meramecian and Chesterian Strata, Northeastern Oklahoma*, accepted full time position with Concho Resources.

Taylor Thompson, 2016, *High Resolution Sequence Stratigraphy and reservoir characterization of Mississippian Carbonates of the Mid-Continent*, Defended Spring 2016, internship summer 2014 with Linn Energy, accepted full time environmental geoscience position with AECOM.

Keller Flinton, 2016, *The effects of High-Frequency Cyclicity on Reservoir Characteristics of the "Mississippian Limestone", Anadarko Basin, Oklahoma*, accepted full time position with American Energy Partners.

Miranda Childress, *Stratigraphic Architecture of Mississippian Carbonates, Mid-Continent, USA*. Defended Spring 2015. Accepted full time position with Devon Energy.

Stephanie LeBlanc, *High Resolution Sequence Stratigraphy of Mississippian Carbonates of the Mid-Continent, USA*. Internship with ExxonMobil, Houston, TX. Internship summer of 2013 with Occidental Petroleum, Houston, TX. Defended Fall 2014. Accepted full time position with ExxonMobil.

Buddy Price, *Reservoir Characterization Mississippian Carbonates, Mid-Continent, USA*. Internship summer 2013 with Devon Energy, Oklahoma City, OK., Defended Fall 2014. Accepted full time position with Devon Energy.

Ph.D. Advisor (WMU)

Tarek Anan, co-chair, *Sequence Stratigraphy of Cretaceous carbonate-siliciclastic sediments in the Sinai Peninsula (Abu Qada Formation), Mansoura University*, Graduated Sept. 2010, Egyptian Channel Program. Faculty at Mansoura University, Cairo, Egypt.

Yasser Salama, co-chair, *Sequence Stratigraphy of Cenomanian-Turonian Strata on the North Sinai Carbonate Shelf, Beni-Suef University*, Egyptian Channel Program. Graduated October 2012. Faculty at Beni-Suef University, Cairo, Egypt.

M.S. Thesis Advisor (WMU)

Seth Workman, *Integrating Depositional Facies and Sequence Stratigraphy in Characterizing Unconventional Reservoirs: Eagle Ford Shale, South Texas*, Internship EOG Resources. Best Student Poster Award (professional session), ESAAPG 2012, Hired by EOG Resources.

Jason Asmus, *Characterizing the Internal Architecture of Upper Bone Spring Limestone Turbidites and Mass-Transport Deposits (MTDs) Utilizing High-Resolution Image Log Technology*, defended Oct. 2012. Best Poster Award, GCAGS, New Orleans, 2013, Internship with EOG Resources. Hired by EOG Resources, Midland, TX.

Jennifer Trout, *Relative Abundance and General Distribution of Fauna in a Silurian (Wenlock) Pinnacle Reef Complex – Ray Reef, Macomb County, Michigan*, defended September 2012. Internship, US Department of the Interior, Guadalupe Mountains National Park, Hired by Western Michigan University.

Shawn McCloskey, *3-D Reservoir Characterization of the South Buckeye Field, Dundee Formation (Devonian), Michigan Basin, USA, Devonian Dundee Formation in the North Buckeye Field, Michigan Basin*, defended March 2012. Hired by Occidental Petroleum, Houston, TX

Peter Feutz, *Evaluating the Effects of Lithofacies and Thin Shales on the Lateral Distribution of Hydrothermal Dolomite Reservoirs in the Michigan Basin*, defended January 2012. Internship with Chesapeake Energy. Hired by Chesapeake Energy, Oklahoma City, OK.

Marcel Robinson, *Integrating Depositional Facies and Stratigraphy in Characterizing Hydrothermal Dolomite Reservoirs: Trenton Group (Ordovician) of the Albion-Scipio Trend, Michigan Basin*, defended July 2012. Internship with Devon Energy. Hired by Devon Energy, Oklahoma City, OK.

John Thornton, *Prediction of Petrophysical Properties of Trenton-Black River (Ordovician) Reservoirs by Comparing Pore Architecture and Permeability to Sonic Velocity*, Defended August 2011. AAPG Grants-in-Aid recipient. Best Student Paper Award, ESAAPG 2011, Internship with Shell Exploration and Production. Hired by Shell Exploration and Production, Houston, TX.

Jennifer Schulz, *High Resolution Depositional Analysis of the Black River Group (Ordovician), Michigan Basin*, defended June 2011. Internship with EOG Resources (Corpus Christi, TX) 2007. Won 2nd Place graduate student paper at AAPG job expo, Oklahoma, 2008. Best Student Poster

Award in Professional Session, ESAAPG 2008. Hired by Occidental Petroleum Corporation in Houston, TX.

Heather Qualman, *3-D Interpretation of the Reservoir Property Distribution in the Belle River Mills Silurian (Niagaran) Reef, St. Clair County, Michigan*, defended July, 2009. Margaret Hawn Mirabile Memorial Best Student Paper Award, professional session, ESAAPG 2009, won 1st Place, Graduate Student Poster, Eastern Section AAPG 2008. Internship with ExxonMobil. Hired by ExxonMobil, Houston, TX.

Audrey Ritter, *Evaluating the Controls on Reservoir Heterogeneity of Silurian Pinnacle Reefs, Michigan Basin*, defended October 2008. Awarded 1st Place, Graduate Student paper contest ES AAPG, 2005, and 2nd Place in 2004 (both while an undergraduate student). Internship with Equitable Resources (Pittsburgh) in 2006 and Occidental Petroleum (Houston) in 2007. Hired by ExxonMobil, Houston, TX.

Jessica Crisp, *A rock-based 3-D model of the Ray Reef Field, Silurian, Michigan Basin*, defended September 2008. Internships with NASA, 2004 and ExxonMobil, 2007. AAPG Grants-in-Aid recipient. Hired by ExxonMobil, Houston, TX.

Amy Noack, *Analysis of Pore Architecture and Correlation to Sonic Velocity Values in the Silurian (Niagaran) Reefs of the Michigan Basin*, defended July 2008. Internship with EOG Resources (2007). Hired by EOG Resources, Midland, TX.

Anthony Sandomierski, *Evaluating Controls on the Formation of Niagaran Pinnacle Reefs in the Michigan Basin: A Sequence Stratigraphic Approach*, defended March 2006. Awarded Vincent E. Nelson Award from AAPG for Best Poster in Professional Session at ES AAPG, 2005. Internship (2005) with ExxonMobil, Houston. Hired by ExxonMobil in Houston, TX.

Peter Voice, *Characterization of the paleoceanography of the Michigan Basin in Silurian time through stable isotope analysis of articulate brachiopods*, defended August 2005. Ph.D. student at Virginia Tech.

Undergraduate Honors Thesis Advisor (WMU): Audrey Ritter, *Mode of formation for Pennsylvanian phylloid algal mounds in the Paradox Basin, southwestern U.S.A.* Ms. Ritter received a WMU Lee Honors College scholarship for undergraduate research for her project, which is now published in an IAS Special Publication.

Senior Thesis Advisor (Univ. Miami): Chris M. Crescini, *Experimental Determination of the Growth Rates of Carbonate Cement in a Marginal Slope Environment, Exuma Sound, Bahamas*, University of Miami/RSMAS (currently with Chevron).

**Mr. Crescini was the recipient of the University of Miami's 1995 Sigma Xi, Best Poster Award for the presentation of his Senior Thesis research. He was also named the 1995 University of Miami Geology Student of the Year by the Miami Geological Society.

Doctor of Philosophy – Committee Member (OSU)

Gina Lukozki (Gregg)

Leye Adeboye (Quan)

Cory Godwin (Boardman/Puckette)

Mercy Achang (Pashin)

Christian Obasi (Pashin)
Sahar Mohammadi (Gregg)

Ph.D. Dissertation Committee (West Virginia University): Brian Toelle, *Use of 3D Seismic Azimuthal Iso-Frequency Volumes for the Detection and Characterization of High Porosity/High Permeability Zones in Carbonates*, defended 2012

Master of Science - Committee Member (OSU)

Ethan Hunt (Puckette)
Doug Ashe (Riedinger)
Paul Charbonneau (Pashin)
Jordan Ray (Gregg)
Justin Steinmann (Riedinger)
John Hunt (Puckette)
Justin Spears (Pashin)
Gina Callaway (Gregg)
Britney Temple (Gregg), defended 2016
Pouyan Ebrahimi (Jaiswal), defended 2015
Jeff Miller (Puckette), defended Fall 2015
Brandon Thibodeaux (Pashin), defended Fall 2015
Preston Doll (Puckette), defended 2015
Pouyan Ebrahimi (Jaiswal), defended Spring 2015
Joey Dineen (Puckette), defended Fall 2015
Ibrahim Al Atwah (Puckette), defended Spring 2015
Taylor Ewald (Gregg), defended Spring 2015
Preston Doll (Puckette), defended Spring 2015
Robert Holman (Jaiswal), defended 2014
Steve Tilley (Puckette), defended summer 2014
Jared Morris (Boardman), defended Fall 2014
John Bertalott (Puckette), defended Fall 2014
Clint Barefoot (Byrnes), defended Spring 2014
Robert Holman (Jaiswal), defended Fall 2014

Master of Science - Committee Member (WMU)

M.S. Thesis Committee Member (WMU): Katherine Pollard, *Analysis of Depositional Facies and Geological Controls on Reservoir Quality in Lower-Middle Devonian Sylvania Sandstone, Midland County, Michigan*, defended March 2013

M.S. Thesis Committee member (WMU): Abraham Abduslam, *Reservoir Characterization and Enhanced Oil Recovery (EOR) Potential in Middle Devonian Dundee Limestones Reservoirs, Michigan Basin, USA*

M.S. Thesis Committee Member (WMU): Niah Venable, *Investigations of the Stratal Character of a Shallow Bedrock Aquifer in Central Lower Michigan*, defended June 2006.

M.S. Thesis Committee Member (WMU): Keith Johnson, *Characterization of fracture systems in Sublette County, Wyoming using P-wave and C-wave 3-D seismic*, defended April 2006.

Doctor of Philosophy – Committee Member (WMU and Univ. Miami)

Ph.D. Dissertation Committee (WMU): Steve Beukema, *High-resolution study of Late Pleistocene climate using multiple stable isotopes*

Ph.D. Dissertation Committee (Univ. Miami): Karin H. Bernet (graduated 1999), *The Record of Hierarchies of Sea-Level Fluctuations in Cores, Logs, and Seismic Data along the Great Bahamas Bank Transect*, University of Miami/RSMAS

Ph.D. Dissertation Committees (Univ. Miami): Michael L. Incze (graduated 1998), *Petrophysical Properties and Acoustic Velocities of Shallow Water Carbonates in Modern Depositional Environments*, University of Miami/RSMAS

Ph.D. Dissertation Committees (Univ. Miami): Laura Guertin (graduated 1997), *Late Cenozoic Mixed Carbonate/Siliciclastic Systems, Southeastern Florida: an Investigation into the Lithostratigraphic, Chronostratigraphic, and Sea Level Record*, University of Miami/RSMAS

PROFESSIONAL SERVICE/COMMITTEES

Miscellaneous Professional Service

- 2004-2017 Associate Editor, Journal of Sedimentary Research
- 2017 Technical Session Convenor, Mountjoy Memorial Meeting on Pore Systems in Carbonates
- 2017 Technical Session Development, AAPG ACE
- 2016 Technical Session Development, AAPG ACE
- 2015 Technical Session Convenor (w/ J. Gregg), Inaugural Eric Mountjoy Memorial Meeting on Carbonates, Banff, Canada
- 2014 SEPM Joint Program Technical Chair, Geological Society of America Annual Meeting, Vancouver, Ca
- 2014 AAPG Technical Committee Member for Carbonate Program, AAPG ACE, Houston, TX
- 2014 Technical Session Chair – AAPG ACE, “Unconventional Carbonate Reservoirs”
- 2010 Technical Program Chairman – Annual Meeting of the Eastern Section of the American Association of Petroleum Geologists
- 2009-2010 Technical Session Chair – SEPM Student Award Session, AAPG Ann. Mtg.
- 2008-present Faculty Advisor, Core Kids – a K-12 Geological Outreach Program that has visited with over 5000 students since January of 2008.
- 2005-2008 Committee Member – AAPG Distinguished Lecture Committee
- 2007 Technical Session Chair – AAPG/SEPM Annual Meeting, “Carbonate Diagenesis and Reservoir Quality Prediction”
- 2006 Technical Session Chair – ES AAPG, “New Approaches to Carbonates of the Eastern U.S.”
- 2003-2007 Faculty Advisor – WMU Student chapter of AAPG
- 2002-2006 Undergraduate Advisor for Geology Majors
- 2004-2005 President, Michigan Basin Geological Society
- 2005 Technical Session co-Chair, “Outcrop Analogs and Visualization Techniques for Reservoir Modeling”, 2005 AAPG/SEPM Annual Mtg., Calgary
- 2003-2004 Vice-President, Michigan Basin Geological Society
- 2002-2004 WMU Faculty Advisor, Western Michigan University Geology Club
- 2003 WMU Field Trip Leader, organized and co-led 9 day field trip for the WMU Geology Club to 4-Corners Region of the U.S.
- 2003-2007 Adjunct Associate Professor, University of Miami, Rosenstiel School of Marine and Atmospheric Science, 2003-2004.
- 1998-2009 Field Seminar Leader, (1998-2007) AAPG Field Seminar, “Sequence stratigraphy

- and reservoir distribution in a modern carbonate platform, Bahamas", with G. P. Eberli and P. M. Harris.
- 2004 Technical Session co-Chair, developed session for "Cores and More – A Look at the Reservoir", 2004 AAPG/SEPM Annual Mtg., Dallas, TX.
- 2003 Technical Session co-Chair, "Porosity development within a sequence stratigraphic framework", 2003 AAPG Annual Mtg., Salt Lake City, UT.
- 2002-2003 AAPG Distinguished Lecturer, presentations to 19 universities and geological societies in the United States, Canada and Mexico, 2002-2003.
- 2002-2003 WMU Curriculum Revision – proponent in revising and updating WMU curriculum in Sedimentology and Stratigraphy, 2002-2003.
- 2000-2003 Adjunct Assistant Professor, University of Miami, Rosenstiel School of Marine and Atmospheric Science, 2000-2003.
- 2002 WMU K-12 Outreach, Presentation to local church group on "Careers in Oceanography and Marine Science", 2002.
- 2001 Field Trip Leader, Sequence Stratigraphy and Reservoir Characterization of a Carboniferous Mixed Carbonate/Siliciclastic System, Paradox Basin, Utah, 2001 AAPG Meeting, with G. P. Eberli, L. J. Weber, and J. F. Sarg.
- 2000-2002 Committee Member, AAPG Grant's-in-Aid, 2000-2002.
- 1998-2001 AAPG Visiting Professional Geologist Program - University Outreach, 1-2 campus visits/yr., 1998-2001.
- 2000 Technical Session co-Chair, "Use of Recent Analogs for Effective Reservoir Modeling and Management", 2000 AAPG Annual Mtg., with G. P. Eberli and P. M. Harris.
- 1997-1998 Advisory Committee Member and participant in the on-line "E-mail Expert" list for GSA's Partners in Education Program (PEP), 1997-1998.
- 1997 K-12 Outreach, Co-PI and lecturer, INSTAR Program, Dade County and NSF funded, University of Miami, Rosenstiel School of Marine and Atmospheric Science, 1997.
- 1996-1997 Graduate Student Outreach, Developed and taught workshop for graduate students on "How to Successfully Prepare for and Present Professional Papers at Scientific Meetings", University of Miami/RSMAS.
- 1996-1997 Mentor, participant in University of Miami's Undergraduate Mentor Program
- 1996 Technical Session co-Chair, "Ancient Carbonate Processes, Dolomites, Cements, and Diagenetic Models", 1996 GSA Annual Meeting, Denver, CO.
- 1996 K-12 Outreach, participant in University of Miami's Teacher Outreach Program.
- 1989 Scientific Advisor, NOAA Field Test of Harbor Branch SCOOP-ROV, Little Bahama Bank.

OSU SERVICE

- 2016-present Chair of Petroleum Geoscience Committee
- 2016-present NESI Board (invited by VP Research)
- 2016-present OSU Microscopy Laboratories Advisory Board
- 2014-present Chair – PhD Prelims Committee
- 2014-present Tenure and Promotion Committee
- 2012-2014 Graduate Admissions Committee

REVIEW OF MANUSCRIPTS AND PROPOSALS (LAST 5 YEARS)

Manuscripts Recently Reviewed for:

Journal of Sedimentary Research (Associate Editor)
Bulletin of the American Association of Petroleum Geologists
Geology
Marine Geology
Sedimentology
Special Publications - American Association of Petroleum Geologists
Special Publications – Society of Sedimentary Geology (SEPM)
Coral Reefs

Research Proposals Recently Reviewed for:

National Science Foundation
Petroleum Research Fund (American Chemical Society)
Natural Sciences and Engineering Research Council of Canada

PUBLICATIONS (** denotes current or former GMG student)

In Review

Vanden Berg, B., G.M. Grammer, and A. Molnar, in review, Quantitative evaluation of pore system architecture and acoustic response of micro- to nano-scale pores in carbonate mudrocks, submitted to Interpretation (AAPG).

Edited Books in Peer-Reviewed Special Publications (in press)

Grammer, G.M., W.B. Harrison and D.A. Barnes, editors, 2018 (in press), Paleozoic Stratigraphy and Resources of the Michigan Basin, Geological Society of America, Special Paper 531

Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, 2018 (in press), Mississippian Reservoirs of the Mid-Continent, U.S.A., American Association of Petroleum Geologists Memoir 116

Manuscripts accepted/in press in peer reviewed journals or special publications

Vanden Berg, B., **Noack, A., **Thornton, J., Nussbaumer, C., Weger, R., Eberli, G. and G.M. **Grammer, 2018 (in press), A comparison of the relationship between measured acoustic response and porosity across different Geologic Periods, Depositional Basins, and with variable mineral composition, American Association of Petroleum Geologists and Society of Exploration Geophysicists, Interpretation, v. 6, no. 2, doi: 10.1190/INT-2017-0108.1

McCloskey, S. and G.M. **Grammer, 2018 (in press), Utilization of Modern and Ancient Analogs to Constrain 3-D Geostatistical Models, Devonian of South Buckeye Field, Michigan Basin, *in* Grammer, G.M., Harrison, W.B. III, and Barnes, D.A., eds., Paleozoic Stratigraphy and Resources of the Michigan Basin, Geologic Society of America Special Paper 531, doi: 10.1130/2018.2531(12)

Edited Books (Peer Reviewed)

Grammer, G. M., Harris, P. M., and Eberli, G. P., editors, 2004, *Integration of Outcrop and Modern Analogs in Reservoir Modeling*, American Association of Petroleum Geologists Memoir 80, 394p. Recipient of the R. H. Dott, Sr. Memorial Award 2006

Published Manuscripts (Peer Reviewed)

Reolid, J., C. Betzler, G.P. Eberli and G.M. **Grammer**, 2017, *The importance of microbial binding in Neogene-Quaternary steep slopes*, Journal of Sedimentary Research, v. 87(5), p. 567-577, doi: 10.2110/jsr.2017.28

Jaiswal, P., R. Holman and G.M. **Grammer**, 2017, *Pitfalls in 3D seismic interpretation: footprints of an irregular source-received layout*, American Association of Petroleum Geologists Bulletin, v. 101, no. 11, p. 1747-1758, doi: 10.1306/02071716056

Norbisrath, J.H., **Grammer**, G.M., **Vanden Berg, B., Tenaglia, M., Eberli, G.P., and R.J. Weger, 2017, *Nanopore imaging in Vaca Muerta Mudrocks to Evaluate Controls on Complex Resistivity Spectra in Unconventional Reservoirs*, SPE Reservoir Evaluation & Engineering, doi: 10.21189/185167

Ritter, A. and **Grammer, G.M., 2017, *Utilizing sequence stratigraphy to develop a depositional model for Silurian (Niagaran) reefs in the Michigan Basin*, in Grammer, G.M., Harrison, W.B. III, and Barnes, D.A., eds., *Paleozoic Stratigraphy and Resources of the Michigan Basin*, Geologic Society of America Special Paper 531, doi:10.1130/2017.2531(05)

Voice, P.J., Harrison, W.B. and G.M. **Grammer, 2017, *A reevaluation of the Burnt Bluff Group (lower Middle Silurian, Michigan Basin) from 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*, Geologic Society of America Special Paper 531, doi: 10.1130/2017.2531(04)

Trout, J.L., **Grammer, G.M., and Harrison, W.B. III, 2017, *Windward vs. Leeward Variability in Faunal Distribution and Relative Abundance 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*, Geologic Society of America Special Paper 531, doi:10.1130/2017.2531(07)

Wold, J.L. and G.M. **Grammer, 2017, *Rock Based 3-D Reservoir Characterization of a Silurian (Niagaran) Reef – Ray Gas Storage Field, Macomb County, Michigan*, in Grammer, G.M., Harrison, W.B. III, and Barnes, D.A., eds., *Paleozoic Stratigraphy and Resources of the Michigan Basin*, Geologic Society of America Special Paper 531, doi: 10.1130/2017.2531(06)

Wilson, E., W. Watney and G.M. **Grammer**, 2017 *An Overview of the Giant Heterogeneous Mississippian Carbonate System of the Midcontinent: Ancient Structure, Complex Stratigraphy, Conventional Traps and Unconventional Technology*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632140M1163784

Childress, M. and G.M. **Grammer, 2017, *Characteristics of Debris Flows and Outrunner Blocks - Evidence for Mississippian-age Deposition on a Distally Steepened Ramp*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632145M1163786

Price, B. and G.M. **Grammer, 2017, *High Resolution Sequence Stratigraphy and Reservoir Characterization of the Mississippian Burlington/Keokuk Formation, Northwestern Arkansas*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632147m1163787

Vanden Berg, B., **S. LeBlanc and G.M. **Grammer, 2017, *Integrated reservoir characterization to provide insight into porosity and permeability in a mixed carbonate-siliciclastic reservoir*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632150M1163698

Wang, Y., Taylor Thompson, and G. M. **Grammer, 2017, *Fracture Characterization and Prediction in Unconventional Reservoirs of the "Mississippian Limestone", North-Central Oklahoma, USA*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632151M1163789

Dupont, A.M. and G.M. **Grammer, 2017, *High-Resolution Chemostratigraphy in the "Mississippian Limestone" of North-Central Oklahoma, AAPG Memoir, Mississippian Reservoirs of the Mid-Continent*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632159M1163794

Jaiswal, P., J. Gregg, S. Parks, R. Holman and G.M. **Grammer**, 2017, *Evidence of Fault/Fracture "Hydrothermal" Reservoirs in the Southern Midcontinent Mississippian Carbonates*, in Grammer, G.M., J. Gregg, J. Puckette, P. Jaiswal, M. Pranter, S. Mazzullo, and R. Goldstein, editors, *Mississippian Reservoirs of the Mid-Continent, U.S.A.*, American Association of Petroleum Geologists Memoir 116, doi: 10.1306/13632161M1163366

Vanden Berg, B. and G. Michael **Grammer, 2016, *Qualitative and Quantitative Characterization of Carbonate Mudrock Pore Architecture: An example from the Mid-Continent "Mississippian" Limestone*, IN T. Olson (ed), *AAPG Memoir 112, Imaging Unconventional Reservoir Pore Systems*. p. 185-232, doi: 10.1306/13592022M1123698

Salama, Y.F., Abdel-Ghawad, G.I., Saber, S.G., El-Shazly, S.H., **Grammer, G.M., and Ozer, S., 2016, *Chemostratigraphy of Cenomanian-Turonian shallow water carbonates: New correlation for the rudist levels from north Sinai, Egypt*, *Arabian Journal of Geosciences*, 9:755, doi 10.1007/s12517-016-2775-1

Salama, Y., **Grammer, G.M., Saber, S., El-Shazly, S. and G. Abdel-Gawad, 2016, *Late Barremian-Early Cenomanian sequence stratigraphic framework in North Sinai, Egypt*, to *Acta Geologica Sinica* (English Edition).

Childress, M. and G.M. **Grammer, 2015, *High-resolution sequence stratigraphic architecture of a Mid-Continent Mississippian outcrop in Southwestern Missouri*, Shale Shaker. p. 206-234.

Vanden Berg, B. and G. Michael **Grammer, 2014, *Combining Sonic Velocity and Characterization of Pore Architecture to Develop a Proxy for Reservoir Permeability in Unconventional Carbonates: An example from the Mid-Continent Mississippian Limestone*, AAPG/URTech Manuscript 1927131, 8pp.

Tarek I. Anan, G. Michael **Grammer, Adam El Shahat, Adel M. Genedi, and Essam F. Sharaf, 2013, *Depositional History, Facies and Sequence Architecture of the Raha and Abu Qada Formations (Cenomanian-Turonian), West Central Sinai, Egypt*, Journal of African Earth Sciences, v. 82, p. 54-69.

Workman, S. and G.M. **Grammer, 2013, *Integrating Depositional Facies and Sequence Stratigraphy in Characterizing Unconventional Reservoirs: Eagle Ford Shale, South Texas*, Gulf Coast Association of Geological Societies Transactions, v. 63, p. 473-508.

Asmus, J.J. and G.M. **Grammer, 2013, *Characterization of Deep-Water Carbonate Turbidites and Mass Transport Deposits (MTDs) Utilizing High-Resolution Electrical Borehole Image Logs: Late Leonardian (E. Permian) Upper Bone Spring Limestone, Delaware Basin, Southeast New Mexico and West Texas*, Gulf Coast Association of Geological Societies Transactions, v. 63, p. 27-65.

David Barnes, William B. Harrison, III, G. Michael **Grammer**, **Jason Asmus, 2013, *CO₂/EOR and Geological Carbon Storage Resource Potential in the Niagaran Pinnacle Reef Trend, Lower Michigan, USA*, GHGT, Energy Procedia v. 37, p. 6786-6799.

Harrison, W.B. III, and **Grammer**, G.M., 2012, *The Great American Carbonate Bank in the Central Michigan Basin*, in *The Great American Carbonate Bank: The Geology and Economic Resources of the Cambro-Ordovician Sauk megasequence of Laurentia*, AAPG Memoir 98, p. 1049-1062.

Grammer, G.M., Barnes, D.A., Harrison, W.B., **Sandomierski, A.E., and Mannes, R.G., 2009, *Practical synergies for increasing domestic oil production and geological sequestration of anthropogenic CO₂: An example from the Michigan Basin*, in Grobe, M., et al., eds. *Carbon Dioxide Sequestration in Geological Media – State of the Science*, AAPG Studies in Geology 59, p. 689-706.

Harrison, W.B., **Grammer**, G.M., and Barnes, D.A., 2009, *Reservoir Characteristics of the Bass Islands Dolomite in Otsego County, Michigan: Results for a Saline Reservoir CO₂ Sequestration Demonstration*, Environmental Geosciences, v. 16, p. 139-151.

Grammer, G.M. and **Ritter, A.L., 2009, *Phylloid algal mounds in the Paradox Basin U.S.A. – an alternative to the *in situ* constructional growth model?*, in Swart, P.K., McKenzie, J., and Eberli, G.P., eds. *Perspectives in Sedimentary Geology: A Tribute to the Career of Robert Nathan Ginsburg*, International Association of Sedimentologists Special Publication 40, p. 239-254.

Toelle, B., Pekot, L., Barnes, D. **Grammer**, M., Harrison, W., 2008, *EOR Potential of the Michigan Silurian Reefs using CO₂*, SPE 113843-PP, 8p.

Grammer, G.M., Barnes, D.A., Harrison, W.B. and Gillespie, R., 2007, *Establishing the Relationship between Fracture-related Dolomite and Primary Rock fabric on the Distribution of Reservoirs in the Michigan Basin*, DOE Final Report, DE-FC26-04NT15513, 308p.

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

Eberli, G. P., Harris, P. M., **Grammer**, G. M., and Cruz, F. E. G., 2005, *Field Guide to the CSL-AAPG Seminar on Sequence Stratigraphy and Reservoir Distribution in a Modern Carbonate Platform, Bahamas*: University of Miami Comparative Sedimentology Laboratory Sedimenta CD Series No. 3.

Grammer, G. M., Harris, P. M., and Eberli, G. P., 2004, *Integration of modern and outcrop analogs for reservoir modeling – overview and examples from the Bahamas*, in **Grammer** et. al. (eds.), *Integration of Outcrop and Modern Analogs in Reservoir Modeling*, AAPG Memoir 80, p. 1-22.

Westphal, H., Eberli, G. P., Smith, L. B., and **Grammer**, G. M., 2004, *Reservoir Characterization in the Mississippian Madison Formation, Wind River Basin, Wyoming*, AAPG Bulletin, v. 88, p. 405-432.

Grammer, G. M., Harris, P. M., and Eberli, G. P., 2002, *Carbonate platforms: exploration and production scale insight from modern analogs in the Bahamas*, in M.R. Thomasson and L. C. Lawyer, eds. SEG/AAPG, Open File Publication No. 7, p. 56-62.

Swart, P.K., Thorrold, S., Rubenstone, J., Rosenheim, B., Harrison, C.G.A., **Grammer**, G.M., and McNeill, D.F., 2002, *Intra-annual variation in the stable oxygen and carbon isotope and trace element composition of sclerosponges*, *Paleoceanography*, v. 17, no. 3, 1045, doi:10.1029/2000PA000622, p. 17.1-17.12.

Grammer, G. M., Harris, P. M., and Eberli, G. P., 2001, *Carbonate platforms: exploration and production scale insight from modern analogs in the Bahamas*, invited paper, *The Leading Edge* (Society of Economic Geophysicists), vol. 20, p. 252-261.

Grammer, G. M., Eberli, G. P., Van Buchem, F. S. P., Stevenson, G. M., and Homewood, P. W., 2000, *Application of High-resolution Sequence Stratigraphy in Developing an Exploration and Production Strategy for a Mixed Carbonate/Siliciclastic system (Carboniferous), Paradox Basin, U.S.A.*, in P.W. Homewood and G. P. Eberli, eds., *Genetic Stratigraphy on the Exploration and Production Scales: Case Studies from the Pennsylvanian of the Paradox Basin and the Upper Devonian of Alberta*, *Elf Aquitaine Memoir* 24, p. 29-69.

Eberli, G. P., Schwab, A. M., and **Grammer**, G. M., 2000, *Anatomy of Ismay algal mound fields - a comparison of outcrop and 3-D seismic data, Paradox Basin, U.S.A.*, in P.W. Homewood and G. P. Eberli, eds., *Genetic Stratigraphy on the Exploration and Production Scales: Case Studies from the Pennsylvanian of the Paradox Basin and the Upper Devonian of Alberta*, *Elf Aquitaine Memoir* 24, p. 93-107.

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Beth Vanden Berg and G. Michael **Grammer

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