

## CURRICULUM VITAE

### GENERAL INFORMATION

Name: **Evan K. Franseen**

Present Address: 1905 Jenny Wren Rd., Lawrence, Kansas 66047

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### EDUCATION

Ph.D. - Geology, 1989, University of Wisconsin-Madison

M.S. - Geology, 1985, University of Wisconsin-Madison

B.S. - With Distinction, 1981, Major in Geology, University of Wisconsin-Madison

### PROFESSIONAL EXPERIENCE

#### Academic

**Professor:** 2007-present, Department of Geology, University of Kansas

**Senior Scientific Fellow:** 2011-present, Kansas Geological Survey, University of Kansas

**Section Chief:** 2005-2011, Stratigraphic Research Section, Kansas Geological Survey, University of Kansas

**Senior Scientist:** July 2001-2011, Carbonate Sedimentologist/Sequence Stratigrapher, Petroleum Research Section (2001-2005), Stratigraphic Research Section (2005-present), Kansas Geological Survey, University of Kansas

**Courtesy Professor:** July 2002-2007, Department of Geology, University of Kansas

**Associate Scientist:** July 1995- 2001, Carbonate Sedimentologist/Sequence Stratigrapher, Petroleum Research Section, Kansas Geological Survey, University of Kansas

**Courtesy Associate Professor:** July 1995- 2002, Department of Geology, University of Kansas

**Assistant Scientist:** 1989-1995, Carbonate Sedimentologist/Sequence Stratigrapher, Petroleum Research Section, Kansas Geological Survey, University of Kansas

**Courtesy Assistant Professor:** May 1991- June 1995, Department of Geology, University of Kansas

**Adjunct Assistant Professor:** 1989-present, Department of Geology, Kansas State University

**Shell Companies Fellow:** 1987-1988, University of Wisconsin-Madison

**Teaching Assistant:** Academic years 1981-1982, 1982-1983, 1984-1985, Department of Geology and Geophysics, University of Wisconsin-Madison. Classroom and laboratory instruction for introductory geology and mineralogy-petrology

**Arco Research Assistant:** September 1985 to May 1987, Miocene Reef Complex Project, Spain, University of Wisconsin-Madison

**Exxon Research Assistant:** August 1983 to May 1984, Permian Reef Complex Project, Guadalupe Mountains, Texas and New Mexico, University of Wisconsin-Madison

## Industry

**Consultant 2013**, Total Oil, France  
**Consultant 2012**, Shell Oil Brazil and Total Oil, Texas, France  
**Consultant 2011**, BHP Billiton Oil Company, Texas  
**Consultant 2010**, BHP Billiton Oil Company, Texas  
**Consultant 2008**, StatoilHydro Oil Company, Norway  
**Consultant 2008**, ExxonMobil Oil Company, Texas  
**Consultant 2007**, ExxonMobil Oil Company, Texas  
**Consultant 2000**, NorskHydro Oil Company, Norway  
**Consultant 1999**, Carbonates International, Spain  
**Consultant 1998**, Conoco Oil Company, Texas  
**Consultant 1998**, Norsk Hydro Oil Company, Norway  
**Consultant 1996-1998**, Geoprep-Field Seminars for the Petroleum Industry, Spain  
**Consultant 1995**, Maxus and Pertamina Oil Companies, Indonesia  
**Consultant 1991**, British Petroleum Oil Company, Texas  
**Consultant 1987**, Exxon Production Research Company, Texas  
**Consultant 1987**, Marathon Oil Company, Colorado  
**Consultant 1987**, Gold Fields Mining Corporation, Nevada

## HONORS, AWARDS, AND OFFICES

**SEPM 2013-2014** President of SEPM, the International Society for Sedimentary Geology  
**SEPM 2012-2013** President-Elect of SEPM, the International Society for Sedimentary Geology  
**Earth Emphasis 2012** Journal of Sedimentary Research paper selected as a “Key Research Article in the Earth Sciences”: Earth Emphasis (<http://earthemphasis.com/key-research-articles/>)  
**SEPM 2011** Certificate of Recognition for Excellent Technical Presentation at National Meeting (replaces best presentation award)  
**SEPM 2010** Award for Excellence of Poster Presentation at National Meeting  
**Rocky Mountain Rendezvous 2010** 1<sup>st</sup> Place Student Poster Presentation (K. Knoph et al.)  
**Rocky Mountain Rendezvous 2010** 2<sup>nd</sup> Place Student Poster Presentation (A. Hess et al.)  
**SEPM 2009-2011** Councilor of Sedimentology  
**University of Kansas, Competitive Sabbatical Leave Award 2010:** Synergistic Publication of Research Results and Development of Industry Consortium for Advancement of KU Carbonate and Stratigraphy Programs  
**SEG 2007** Nominated for Best Paper Award in The Leading Edge  
**SEPM 2005** Finalist for Best Paper Award in Journal of Sedimentary Research  
**AAPG 2003** Jules Braunstein Memorial Awarded for Best Poster Presentation at National AAPG Meeting  
**AAPG 2003** R.N. Planalp Award for Best Paper at the AAPG Mid-Continent Section Meeting  
**SEPM 2001** Honorable mention, Award for Excellence in Poster Presentation at National Meeting  
**SEPM 1998** Honorable mention, Award for Excellence in Poster Presentation at National Meeting  
**President 1996-1997** SEPM-Midcontinent Section  
**2nd Vice-Chair 1996-1997** Sedimentary Geology Division, Geological Society of America  
**Vice President 1995-1996** SEPM-Midcontinent Section  
**SEPM 1994** Honorable mention, Award for Excellence in Poster Presentation at National Meeting  
**SEPM 1988** Award for Excellence in Poster Presentation at National Meeting

**Shell Companies Foundation Fellowship 1987-1988**

**Vilas Fellowship 1986-1987**

**Stanley A. Tyler Award 1982-1983** For Outstanding Teaching Assistant

**Getty Oil Scholarship 1981** For Outstanding Geology Senior

**Phi Kappa Phi Scholastic Honor Society 1981**

**Graduated with Distinction 1981** University of Wisconsin-Madison

### **PRESENT MAJOR SCIENTIFIC INTEREST**

Sedimentology, sequence stratigraphy, and diagenesis of carbonate and siliciclastic strata. Integration of outcrop and subsurface studies, high-resolution and conventional seismic methods, ground- penetrating radar, paleomagnetic methods, biostratigraphy, petrography, geochemical techniques, and computer modeling to better discern variables such as global, regional and local sea-level fluctuations, paleoceanographic conditions, climate, paleotopography, and autogenic processes that control carbonate depositional systems and reservoirs.

### **SUPPLEMENTAL INFORMATION**

#### **AFFILIATIONS**

**Member**, American Association of Petroleum Geologists

**Member**, SEPM (Society for Sedimentary Geology)

**Member**, International Association of Sedimentologists

**Member**, Geological Society of America

**Member**, Sedimentary Geology Division, Geological Society of America

**Member**, Regional Committee on Mediterranean Neogene Stratigraphy

**Member**, Mediterranean Miocene Reef Workers

**Member**, SEPM Midcontinent Section

**Member**, Sigma Xi, The Scientific Research Society

#### **INTERNAL AND EXTERNAL COMMITTEE SERVICE (Chronologic)**

**President 2013-2014**, SEPM

**Chair 2013**, SEPM Shepard Medal Committee

**Member 2013**, SEPM Student Assistance Grants Committee

**President-Elect and Council Member 2012**, SEPM

**Sedimentary Councilor and Council Member 2009-2011**, SEPM

**Chair 2012**, SEPM Sedimentary Record Journal Editor Search Committee

**Chair 2009-2011**, SEPM Pettijohn Medal Award Committee

**Chair 2009-2011**, SEPM Journal of Sedimentary Research Outstanding Paper Award  
Committee

**Member 2009-present**, Promotion and Tenure Committee, Department of Geology, University  
of Kansas

**Member 2009-present**, SEPM Book Publications Committee

**Chair 2009-2010**, Ritchie Chair in Sequence Stratigraphy, Department of Geology, University  
of Kansas

**Chair 2008-2009**, SEPM Headquarters & Business Committee  
**Member 2008**, 5-Year Review Committee for Tertiary Oil Recovery Program, University of Kansas  
**Member 2006-2008**, SEPM Foundation Board  
**Member 2006-2008**, SEPM Student Assistance Grants Committee  
**Member 2005-present**, Management Team, Kansas Geological Survey  
**Member 2005-present**, Kansas Geologic Mapping Advisory Committee, Kansas Geological Survey representative  
**Member 2005-2008**, Research Advisory Group, Kansas Geological Survey  
**Member 2005-2007**, Promotion and Review Committee, Kansas Geological Survey  
**Member 2004-2008**, SEPM Headquarters & Business Committee  
**Chair 2002-present**, Performance Evaluation Procedure Working Group, Kansas Geological Survey  
**Member 1994-present**, Stratigraphic Nomenclature Committee, Kansas Geological Survey  
**Member 1993-present**, Editorial Advisory Board, Current Research on Kansas Geology Bulletin  
**Co-chair 2006-2007**, Search Committee for Kansas Geological Survey Deputy Director, University of Kansas  
**Member 2005-2006**, Search Committee for Kansas Geological Survey Director, University of Kansas  
**Member 2004-2006**, SEPM Ad-hoc Committee on E-publishing  
**Chair 2004-2005**, Promotion and Review Committee, Kansas Geological Survey  
**Member 2004**, Strategic Planning Committee, Kansas Geological Survey  
**Member 2003-2004**, Promotion and Review Committee, Kansas Geological Survey  
**Co-chair 2002-2003**, SEPM Carbonate Research Group  
**Team Leader 2002**, AAPG Grants-in-Aid Committee  
**Member 1996-2002**, AAPG Grants-in-Aid Committee  
**Member 1997-1998**, Technical Committee, Seventh International Conference on Ground Penetrating Radar, University of Kansas  
**President 1996-1997**, SEPM-Midcontinent Section  
**Member 1996-1998**, SEPM Membership Committee  
**2nd Vice-Chair 1996-1997**, Sedimentary Geology Division, Geological Society of America  
**Vice President 1995-1996**, SEPM-Midcontinent Section  
**Chair 1994**, Student Awards Committee, Kansas Geological Survey  
**Member 1994**, Scientific Committee, Regional Committee on Mediterranean Neogene Stratigraphy Colloquium, Marseilles, France  
**Chair 1992-1994**, SEPM Cenozoic Reef Research Group  
**Member 1992-1993**, Student Awards Committee, Kansas Geological Survey  
**Member 1991-1996**, SEPM Continuing Education Committee  
**Member 1990-1997**, Mediterranean Miocene Reef Workers  
**Member 1987-1988**, Teaching Assistant Evaluation Committee, University of Wisconsin-Madison  
**Officer 1985-1987**, Geoclub, University of Wisconsin-Madison  
**Coordinator 1983, 1986, 1987**, Petroleum Company Interviews, University of Wisconsin-Madison

## **EDITORHIPS**

**Associate Editor**, PALAIOS (Journal of the Society for Sedimentary Research, SEPM), 2002-present.

**Editorial Board**, Current Research in Earth Sciences, Kansas Geological Survey Bulletin, 1993-present.

**Editorial Board**, GEOLOGY (Journal of the Geological Society of America, GSA), 2004-2007.

**Co-editor**, SEPM Special Publication #62, 1997-1999.

**Lead Editor**, SEPM Concepts in Sedimentology and Paleontology Series 5, 1994-1996

**Lead Editor**, Kansas Geological Survey Bulletin 233, 1989-1991.

**Lead Editor**, Kansas Geological Survey, Subsurface Geology Series 12, 1989.

## **STUDENT SEMINARS, COURSES AND FIELD TRIPS CONDUCTED**

### **University Of Kansas**

**Instructor** for Geology 532 – Stratigraphy, Fall Semester, 2013, Geology Department, University of Kansas.

**Co-Instructor** for Geology 761 - Regional Field Geology, Spring Semester, 2013, Geology Department, University of Kansas.

**Instructor** for Geology 791 – Carbonate Sequence Stratigraphy & Modeling, Spring Semester, 2012, Geology Department, University of Kansas.

**Instructor** for Geology 791 – Current Research in Sedimentary Geology Seminar, Fall Semester, 2011, Geology Department, University of Kansas.

**Instructor** for workshop on Evaluating Controls on Carbonate Stratigraphic Sequences: A Field-based Approach: University of Puerto Rico-Mayaguez, June 14-16, 2011.

**Co-Instructor** for Geology 761 - Regional Field Geology, Spring Semester, 2010, Geology Department, University of Kansas.

**Co-leader** of a 10-day field trip for University of Kansas and University of Puerto Rico-Mayaguez geology graduate and undergraduate students to Paleozoic Strata in the Sacramento and Guadalupe Mountains, New Mexico and Texas, March 12-March 21, 2010.

**Instructor** for Geology 101 – Introduction to Geology, Spring Semester, 2009, Geology Department, University of Kansas (~300 students).

**Instructor** for Geology 791 – Seminar: Experiments in Sedimentary Modeling, Fall Semester, 2008, Geology Department, University of Kansas.

**Co-leader** of a 10-day field trip for University of Kansas and University of Puerto Rico-Mayaguez geology graduate and undergraduate students to Miocene-Pliocene Carbonate Complexes, Spain, March 14-March 24, 2008.

**Co-instructor** for Geology 761 - Regional Field Geology, Spring Semester, 2008, Geology Department, University of Kansas.

**Field trip leader** for University of Kentucky undergraduate students to Lansing-Kansas City Group (Pennsylvanian) cyclothemic strata in NE Kansas, June 22, 2007.

**Co-leader** of a 10-day field trip for University of Kansas and University of Puerto Rico-Mayaguez geology graduate and undergraduate students to Paleozoic Strata in the

- Sacramento and Guadalupe Mountains, New Mexico and Texas, March 17-March 26, 2006.
- Co-instructor** for Geology 761 - Regional Field Geology, Spring Semester, 2006, Geology Department, University of Kansas.
- Field trip leader** for University of Kentucky undergraduate students to Lansing-Kansas City Group (Pennsylvanian) cyclothemic strata in NE Kansas, June 16, 2003.
- Instructor** for Geology 891 – Special Studies in Geology, Spring Semester, 1999, Geology Department, University of Kansas.
- Co-instructor** for graduate student seminar “Advances in Research of the KU Miocene Carbonate Complexes of SE Spain Research Group”, Spring Semester, 1999, Geology Department, University of Kansas.
- Co-leader** of a 10-day field trip for University of Kansas geology graduate students to Paleozoic Strata in the Sacramento and Guadalupe Mountains, New Mexico and Texas, October 23-November 1, 1998.
- Co-instructor** for Geology 761 – Regional Field Geology, Fall Semester, 1998, Geology Department, University of Kansas.
- Co-instructor** for graduate student seminar “Advances in Research of the KU Miocene Carbonate Complexes of SE Spain Research Group”, Fall Semester, 1998, Geology Department, University of Kansas.
- Co-leader** of a 9-day field trip for University of Kansas geology graduate students to Paleozoic Strata in the Sacramento and Guadalupe Mountains, New Mexico and Texas, March 17-25, 1995.
- Co-instructor** for graduate student seminar on “Advanced Theory and Application of Sequence Stratigraphy”, Spring Semester, 1995, Geology Department, University of Kansas.
- Co-leader** of a 3-day field trip for University of Kansas and University of Wisconsin-Madison geology graduate students to Lansing-Kansas City Group (Pennsylvanian) cyclothemic strata in NE and SE Kansas, April 21-23, 1994.
- Instructor** for final exam for a non-thesis masters degree candidate, Department of Geology, University of Kansas, May 1994.
- Field trip leader** for 50 Kansas high school science teachers to Pennsylvanian carbonate and siliciclastic strata in the Kansas City, Kansas area, April 2, 1993.
- Co-instructor** for graduate student seminar "Seismic and Sequence Stratigraphic Concepts", Spring Semester, 1991, Geology Department, University of Kansas.
- Guest instructor** for the Geology Department, University of Kansas, 1990-present. Courses taught include Introductory Geology and Sedimentology.
- Field trip leader** for students from Northeast High School, Kansas City to Pennsylvanian outcrops in the Kansas City area, June 1990.
- Field trip leader** for students from Northeast Middle School, Kansas City to Pennsylvanian outcrops in the Kansas City area, May 1989.

### **University Of Wisconsin-Madison**

**Teaching Assistant:** Academic years 1981-1985, Department of Geology and Geophysics, University of Wisconsin-Madison. Classroom and laboratory instruction for introductory geology, sedimentology, stratigraphy and mineralogy-petrology. Received the Stanley A. Tyler Award For Outstanding Teaching Assistant, 1982-1983.

## **PROFESSIONAL SYMPOSIA, COURSES AND FIELD TRIPS CONDUCTED**

- Co-instructor** for Total Oil Company geologists to Miocene-Pliocene Carbonate Complexes, SE Spain, November 27-29, 2013.
- Session Chair** – “Interplay of Evaporites and Carbonates Including Microbialites”; 2013 AAPG Annual Convention, Pittsburg, PA, May 19-22.
- Session Chair** – “Modern Carbonates”; 2013 AAPG Annual Convention, Pittsburg, PA, May 19-22.
- Session Chair** – “Carbonates and Evaporites I & II”; 2013 AAPG Annual Convention, Pittsburg, PA, May 19-22.
- Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, June 2-7, 2013.
- Session Chair** – “Carbonates in Time and Space: Sedimentology, Stratigraphy, and Diagenesis”: 2012 GSA Annual Meeting & Exposition, Charlotte, North Carolina, November 2012.
- Session Chair** – “Microbial Carbonate Reservoirs, Reservoir Analogs, and Geologic Models”: AAPG Hedberg Research Conference, Microbial Carbonate Reservoir Characterization, Houston, Texas, June 3-8, 2012.
- Co-Instructor** for Shell Oil Brazil and Total Oil Company geoscientists to Miocene-Pliocene Carbonate Complexes, SE Spain, August 28-September 2, 2012.
- Co-instructor** for BHP Billiton Oil Company geologists to Miocene-Pliocene Carbonate Complexes, SE Spain, October 7-15, 2011.
- Co-convenor** and organizer, KICC Annual Meeting, 2011, 2012, 2013.
- Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, May 16-21, 2010.
- Co-instructor** for BHP Billiton Oil Company geologists to Paleozoic Carbonates of the Sacramento and Guadalupe Mountains, New Mexico and Texas, October 16-22, 2010.
- Session Chair** – “Origin of Carbonate Breccia Systems - Multiphase Systems, Multi-time Events & Reservoir Quality”, AAPG/SEPM Meeting, Denver, Colorado, 2009.
- Co-instructor** for AAPG Education Program: " Play Concepts and Controls on Porosity Distribution in Carbonate Reservoirs", Almeria, Spain, May 2009.
- Session Chair** – “Carbonate-dominated Deep-water Depositional Systems”, AAPG/SEPM Annual Meeting, San Antonio, Texas, 2008.
- Instructor and field trip leader**, ExxonMobil, Fundamental Controls on Flow in Carbonates Course, Almeria, Spain, September 2008.
- Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, May 2008.
- Co-field trip leader**, StatoilHydro, Miocene-Pliocene Carbonate Complexes of Southeastern Spain, May 2008.
- Co-field trip leader**, SaudiAramco, Miocene-Pliocene Carbonate Complexes of Southeastern Spain, May 2008.
- Co-convenor** and organizer, NSF Workshop - Community Sedimentary Model Science Plan for Carbonate Systems, February 2008, Golden, CO.
- Instructor and field trip leader**, ExxonMobil Carbonate Intern Training Course, Almeria, Spain October 2007.
- Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, May-June 2007.

**Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, May-June 2006.

**Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, May 2005.

**Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, June 2004.

**Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, September 2003.

**Session chairman** for session on Differentiating Controls on Carbonate-Evaporite Systems, AAPG/SEPM Annual Meeting, Salt Lake City, 2003.

**Session chairman** for session on Stratigraphic, Biologic, and Geochemical Proxies for Paleoclimate, AAPG/SEPM Annual Meeting, Salt Lake City, 2003.

**Co-instructor** for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, June 2002.

**Co-instructor** for AAPG Education Program: "Field Seminar on Carbonate Ramp and Reef Complexes: Depositional Sequence Development and Porosity Distribution", Almeria, Spain, January 2001.

**Co-instructor** for AAPG Education Program: "Field Seminar on Carbonate Ramp and Reef Complexes: Depositional Sequence Development and Porosity Distribution", Almeria, Spain, June 2000.

**Co-leader** of a 4-day field trip to Miocene Carbonate Complexes of Southeastern Spain for geologists from Maersk Qatar, Chevron Qatar, Chevron Overseas Bahrain, Occidental Petroleum Qatar, Texaco Oil Company, Apache Oil Company, June 6-June 10, 1999.

**Co-leader** of a 4-day field trip to Miocene Carbonate Complexes of Southeastern Spain for geologists from Conoco Oil Company, June 15-June 18, 1998.

**Co-leader** of a 4-day field trip to Miocene Carbonate Complexes of Southeastern Spain for geologists from Saudi Aramco, Maersk Qatar, Z&S Geoscience (DK), and Lasmo Oil, June 4-June 7, 1998.

**Co-leader** of a 4-day field trip to Miocene Carbonate Complexes of Southeastern Spain for geologists from NorskHydro Oil Company, March 16-20, 1998.

**Co-leader** of a 4-day field trip to Miocene Carbonate Complexes of Southeastern Spain for geologists from Enterprise and MAERSK Oil Companies, June 6-10, 1997.

**Session chairman** for Applied Quantitative Stratigraphic Modeling Session, AAPG/SEPM Annual Meeting, Texas, 1997.

**Co-convener** for an SEPM International Workshop entitled "Numerical Experiments in Stratigraphy", University of Kansas, May 15-17, 1996.

**Co-leader** of a 4-day field trip to Miocene Carbonate Complexes of Southeastern Spain for geologists from Maxus and Pertamina Oil Companies, September 28-October 3, 1995.

**Session chairman** for Computer Modeling Session at a Research Conference "Sedimentary Responses to Forced Regressions: Recognition, Interpretation and Reservoir Potential", Geological Society of London, England, September 7-8, 1995.

**Session chairman** for the Regional Committee on Mediterranean Neogene Stratigraphy, Interim Colloquium on Miocene Reefs and Carbonate Platforms of the Mediterranean, University of Marseilles, France, May 2-6, 1994.

**Co-convener** and organizer for an SEPM/IAS Research Conference "Carbonate Stratigraphic Sequences: Sequence Boundaries and Associated Facies", August 30-September 3, 1992,



Spain.

**Co-leader** of a 3-day field trip to Late Miocene Carbonate Sequences of Southeastern Spain, September 4-6, 1992, for participants of the SEPM/IAS Research Conference on Carbonate Stratigraphic Sequences: Sequence Boundaries and Associated Facies.

**Co-leader** of a 1-day field trip on the Stratigraphy and Depositional History of the Drum Limestone (Pennsylvanian) in the Independence, Kansas, Area, for the AAPG Mid-Continent Section Meeting in Wichita, Kansas, September 21, 1991.

**Co-leader** of a 4-day field trip to Paleozoic Strata in the Sacramento and Guadalupe Mountains, New Mexico and Texas, for geologists from British Petroleum Oil Company, May 18-21, 1991.

**Co-convener** and organizer for a research conference, "Sedimentary Modeling: Computer Simulation of Depositional Sequences", University of Kansas, October 13, 1989.

**Co-leader** of a 2-day field trip to Kansas City and Lansing Group (Pennsylvanian) outcrops in Kansas, for participants of the research conference "Sedimentary Modeling and Simulation of Depositional Sequences", October 14-15, 1989.

**Leader** of a 2-day field trip to Miocene Reef Complexes, Southeast Spain, for geologists from Marathon Oil Company, June, 1987.

**Leader** of a 3-day field trip to the Grayburg Formation on the western escarpment of the Guadalupe Mountains, Texas, for geologists from Exxon Production Research Company, May, 1984.

### **POST DOCTORATE STUDENTS SUPERVISED**

*Paul Montgomery*, University of Kansas (1997-2001). Research Topic: Improving Magnetostratigraphy as a Chronostratigraphic Tool in Shallow Water Carbonate Deposits using Examples from Upper Miocene Strata in Southeastern Spain.

*Mark Steinhaff*, University of Kansas (1997-1998). Research Topic: Arbuckle Reservoirs in Central Kansas: Relative Importance of Depositional Facies, Early Diagenesis and Unconformity Karst Processes on Reservoir Properties.

*Irene Gomez-Perez*, University of Wisconsin-Madison (1996-1997). Research Topic: Effects of Relative Sea-Level Changes on Facies and Diagenetic Variability of a Pennsylvanian Outcrop and Near-Surface Reservoir Analog, SE Kansas (Missourian, Drum Limestone).

### **GRADUATE STUDENT THESIS PROJECTS SUPERVISED**

*Dustin Stolz*, University of Kansas (**active** - M.S. Candidate). Sedimentology and Stratigraphy of the Avalon Shale, Texas.

*Karen Ohmes*, University of Kansas (**active** - M.S. Candidate). Build and fill sequences of Pennsylvanian strata, Paradox Basin, Utah.

*Diana Ortega-Ariza*, University of Kansas (**active** – Ph.d. Candidate). Thesis topic: Quantitative Sequence Stratigraphy and Sea-level History of Miocene Carbonates on a Global Scale.

*Rafferty Sweeney*, University of Kansas (**active** - M.S. Candidate). Thesis topic: Sequence Stratigraphy of the La Rellana Carbonate Platform, SE Spain.

*Zhaoqi Li*, University of Kansas (Ph.d. 2013). Thesis topic: Diagenetic Controls on Porosity and Permeability in Miocene carbonates, La Molata, Spain.

*Nicholas Welsh*, University of Kansas (M.S. Candidate). Thesis topic: Sequence Stratigraphy and Trace Fossil Assemblages in Miocene Deep Water Carbonate Deposits, Agua Amarga

- Basin, SE Spain.
- Justin Fairchild*, University of Kansas (M.S. 2012). Thesis topic: Paleotopography and Sea-level Controls on Facies Distribution and Stratal Architecture in the Westerville Limestone (Upper Pennsylvanian), NE Kansas, NW Missouri.
- Anya Hess*, University of Kansas (M.S. 2011). Thesis topic: Heterozoan Carbonate Lithofacies and Sequence Stratigraphy: A Study of Pliocene Strata of the Agua Amarga Basin, Southeastern Spain.
- Katharine Knoph*, University of Kansas (M.S. 2011). Thesis topic: Ground-penetrating Radar Imaging of Depositional and Diagenetic Features in an Upper Miocene Carbonate Reservoir Analog, SE Spain.
- Erin Young*, University of Kansas (M.S., 2010). Thesis topic: Controls on Reservoir Character in Carbonate-Chert Strata, Mississippian (Osagean), Southeast Kansas.
- Christopher Lipinski*, University of Kansas (M.S., 2009). Thesis topic: Stratigraphy of Upper Miocene Oolite-Microbialite-Coralgal Reef Sequences of the Terminal Carbonate Complex: Southeast Spain.
- Rachel Dvoretzky*, University of Kansas (M.S., 2009). Thesis topic: Stratigraphy and Reservoir-analog Modeling of Late Miocene Shallow-water and Deep-water Carbonate Deposits: Agua Amarga Basin, Southeast Spain.
- Jessica Poteet*, University of Kansas (M.S., 2007). Thesis topic: Controls on Variability in Regressive Oolitic Reservoirs in Kansas.
- Juli Emry*, University of Kansas (M.S., 2005). Thesis topic: Controls on Build-and-Fill Architecture of the Argentine Limestone and Associated Strata in Northeastern Kansas and Development of a First-cut Method for Evaluating Limestone Aggregate Durability.
- Edward Washburn*, University of Kansas (M.S., 2004). Thesis topic: Paleotopography and Sea-level Controls on Facies Distribution and Stratal Architecture in the Plattsburg Limestone (Upper Pennsylvanian), NE Kansas.
- Peter Dillet*, University of Kansas (M.S., 2004). Thesis topic: Pliocene Sequence Stratigraphy of the Carboneras Basin, Southeastern Spain.
- Niall Toomey*, University of Kansas (M.S., 2002). Thesis topic: Controls on Sequence Stratigraphy of Upper Miocene (Messinian/Tortonian) Carbonates in the Cerro de Ricardillo-San Pedro Area of Southeastern Spain.
- Christopher Johnson*, University of Kansas (M.S., 2001). Thesis topic: Controls on Facies Distribution in a Temperate-Water Carbonate Ramp, Late Miocene, Cabo de Gata Region, Southeastern Spain.
- Jason Mckirahan*, University of Kansas (M.S., 1998). Thesis title: Sequence Stratigraphy of the Lane-Island Creek Shales and the Farley Limestone in Northeastern Kansas and Geologic Factors Affecting the Quality of Limestone Aggregates.
- Kevin Cunningham*, University of Kansas (Ph.D., 1995). Thesis title: An Upper Miocene Sedimentary Succession, Melilla Basin, Northeastern Morocco.
- Tracey Whitesell*, University of Kansas (M.S., 1995). Thesis title: Diagenetic Features Associated with Sequence Boundaries in Upper Miocene Carbonate Strata, Las Negras, Spain.

## **GRADUATE RESEARCH ASSISTANTS SUPERVISED KANSAS GEOLOGICAL SURVEY**

*Marcello Minzoni*, University of Kansas, Build and Fill Sequence Stratigraphy Project, 2006.  
*Justin Fairchild*, University of Kansas, Aggregate Durability Project, 2006-2008.  
*Jessica Ludwig*, University of Kansas, Oolitic reservoirs in Kansas project, 2004-2006.  
*Edward Washburn*, University of Kansas, NSF-Ground Penetrating Radar Project, 2000-2004.  
*Thomas Weis*, University of Kansas, NSF-Ground Penetrating Radar Project, 1999-2000.  
*Kristie Luchtel*, University of Kansas, Arbuckle Reservoirs Project, 1997-1998.  
*Shaun Brennan*, University of Kansas, Arbuckle Reservoirs Project, 1996-1997.  
*Jeffery Jaech*, University of Kansas, Arbuckle Reservoirs Project, 1995-1996.  
*Jon Garbisch*, University of Kansas, Farley Limestone Project, 1994-1995.  
*Kevin Cunningham*, University of Kansas, Argentine and Captain Creek Limestone Projects, 1991-1993.  
*Robert Fillmore*, University of Kansas, Drum Limestone Project, 1990-1991.  
*Stephen Roth*, Kansas State University, Lansing-Kansas City Limestone Project, 1989-1992.

## **FOREIGN LANGUAGES - SPEAKING AND READING ABILITY**

French (fluent speaking; reading comprehension), Spanish (speaking ability: reading comprehension)

## **BIBLIOGRAPHY** (\* indicates student)

### **PATENTS**

Robert H. Goldstein, Evan K. **Franseen**, and \*Juli Emry, Co-inventors, 2006, Spectral Scintillometry as a First-Cut Method for Evaluating Aggregate Durability: University of Kansas, Patent Pending.

### **BOOKS**

#### **In Preparation**

**Franseen**, E.K., and Goldstein, R.H., Sequence Stratigraphy – Build-and-Fill Sequences in Carbonate-dominated Systems (Likely outlets; AAPG Memoir, SEPM Special Publication). 50% completed.

## **Published**

- Harbaugh, J., Watney, W.L., Rankey, E., Goldstein, R.H., and **Franseen**, E.K., Eds., 1999, Numerical Experiments in Stratigraphy: Recent Advances in Stratigraphic and Sedimentologic Computer Simulations: SEPM Special Publication # 62, 362p.
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### **PEER-REVIEWED EXTENDED ABSTRACTS**

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## INTERNAL REPORTS

- Franseen, E.K., and Goldstein, R.H., 1996, 1997, 1998, 1999, Demonstrating the Utility of New Techniques and Approaches for Evaluating Controls on Carbonate Depositional Sequences, Conoco Oil Company, 7 p. + Appendices for each year.**
- Franseen, E.K., and Goldstein, R.H., 1992, Integration of Diagenesis with Sequence Stratigraphy in the Miocene Carbonate Rocks of SE Spain: British Petroleum Oil Company, Exxon Production Research Company, Texaco Oil Company, 11 p., 56 figs.**
- Franseen, E.K., 1988, The Grayburg Formation and the Associated Erosion Surface, Western Escarpment, Guadalupe Mountains, Texas: New Data-Updated Interpretations: Exxon Production Research Company Internal Report (PR-10537), 43 p., 45 figs.**
- Franseen, E.K., 1988, Paragenetic Sequence and Dolomitization of Some Paleozoic Carbonates, Nevada: Gold Fields Mining Corporation Internal Report, 7 p.**

## EXTERNAL FUNDING

- Kansas Interdisciplinary Carbonate Consortium (KICC) – 2010-present; Principal Investigator, with R.H. Goldstein and E. Rankey and 13 Co-PIs: 2010 - \$135,000; 2011 - \$405,000.; 2012 - \$450,000.**
- U.S. Department of Energy –2012; Co-PI, with W.L. Watney, and others: \$1,500,000, Continuation CO2 Sequestration in Saline Aquifer & Depleted Oil Reservoir to Evaluate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, Kansas.**
- U.S. Department of Energy – 2009-2012; Co-PI, with W.L. Watney, S. Bhattacharya, and others: \$4,974,352, Modeling CO2 Sequestration in Saline Aquifer & Depleted Oil Reservoir to Evaluate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, Kansas.**
- RPSEA – 2010-2012; Co-PI, with J.-S. Tsau, J.-T. Liang, M. Ballard, P. Willhite: \$607,704, Characterization of Potential Sites for Near Miscible CO2 Applications to Improve Oil Recovery in Arbuckle Reservoirs.**
- BeicipFranlab – 2011; Principal Investigator, with R.H. Goldstein: \$750,000 (as software), DIONISOS Modeling Software.**
- ExxonMobil Oil Company – 2009-2012; Co-PI, with R.H. Goldstein: \$255,000, Diagenetic Controls on Porosity and Permeability in Miocene Carbonates, La Molata, Spain.**
- Schlumberger Technology Corporation – 2009; Co-PI, with R.H. Goldstein and E. Rankey: \$625,436 (as software), Petrel Software Suite.**
- Hess Oil Company – 2009-2010; Co-PI, with R.H. Goldstein: \$25,000, Stratigraphic and Hydrocarbon Reservoir-Analog Character for Uppermost Miocene Oolitic, Thrombolitic, Stromatolitic, Coral Reef Systems, Ricardillo and La Molata, SE Spain.**
- ExxonMobil Oil Company – 2008; Principal Investigator, with R.H. Goldstein: \$10,000, Fluid Flow in Carbonate Systems.**
- National Science Foundation – 2007; Co-PI, with J.F. Sarg and E. Rankey: \$50,000, Community Sedimentary Model Science Plan for Carbonate Systems: A Workshop. EAR-0733782.**
- Saudi Aramco Oil Company - 2006-2007; Principal Investigator, with R.H. Goldstein, G.P. Tsoflias, and A.P. Byrnes: \$9500 - Phase 1 - Development of 3-D Models for Basin-Floor Carbonate Reservoir Analogs, Miocene, SE Spain.**

**Kansas Department Of Transportation** – 2005-2006; **Principal Investigator**; \$51,500 - Construction Materials Inventory/GIS Development Project for Pottawatomie County.

**ExxonMobil Oil Company** - 2005-2006; **Principal Investigator**, with R.H. Goldstein, G.P. Tsoflias, and A.P. Byrnes: \$9500 - Phase 1 - Development of 3-D Models for Basin-Floor Carbonate Reservoir Analogs, Miocene, SE Spain.

**U.S. Department of Energy** - 2004-2007; **Co-PI**, with S. Nissen, S. Bhattacharya, A. Byrnes, J. Doveton, M. Dubois, W.L. Watney: \$799,833 - Improving Geologic and Engineering Models of Midcontinent Fracture and Karst-Modified Reservoirs Using New 3-D Seismic Attributes. DE-PS26-04NT15450.

**U.S. Department of Energy** - 2000-2005; **Co-PI**, with S. Bhattacharya, T.R. Carr, A.P. Byrnes, M.K. Dubois: \$200,000 - Field demonstration of horizontal infill drilling using cost-effective integrated reservoir modeling - Mississippian carbonates, Central Kansas. DE-PS26-01BC15276.

**U.S. Department of Energy** - 2003-2004; **Co-PI**, with T.R. Carr, A.P. Byrnes, S. Nissen, S. and R.E. Pancake: \$125,000 - Improved Approaches to Design of Polymer Gel Treatments in Mature Oil Fields: Field Demonstration in Dickman Field, Ness County, Kansas. IND34110.

**Kansas Department Of Transportation** – 2002-2004; **Co-PI**, with R.H. Goldstein: \$39,000 - Implementation of "First Cut" Evaluation of Aggregate Durability Using Clay Content as Indicated by Spectral Gamma Ray Logging of Limestone Aggregate.

**National Science Foundation** - 1999-2001; **Principal Investigator** with J. Butler, J. Xia, J., A. Byrnes, and J. Stiles: \$32,020 - Ground-Penetrating Radar: A Tool for the Next Generation of Outcrop Studies?. EAR-9912062

**Conoco Oil Company**, Dupont Research Support Grant - 1998-1999; **Principal Investigator**, with R.H. Goldstein: \$10,000 - Demonstrating the Utility of New Techniques and Approaches for Evaluating Controls on Carbonate Depositional Sequences.

**National Science Foundation** - 1996-1999 (extended to 2001); **Principal Investigator**, with R.H. Goldstein: \$137,995 - A New Approach for Evaluating Controls on Depositional Sequence Architecture. EAR-9527004.

**Kansas Department Of Transportation** - 1996-1997; **Co-PI**, with R.H. Goldstein: \$32,000 - Predicting the Distribution of Class 1 Aggregate from Geologic and Rock Properties and Development of a Sequence-Stratigraphic Framework.

**Conoco Oil Company**, Dupont Research Support Grant - 1997-1998; **Principal Investigator**, with R.H. Goldstein: \$15,000 - Demonstrating the Utility of New Techniques and Approaches for Evaluating Controls on Carbonate Depositional Sequences.

**University of Kansas Energy Research Center** - 1997-1998; **Principal Investigator**: \$4,800 - Study of Depositional and Paragenetic History of Arbuckle Strata in Kansas within a Sequence-Stratigraphic Framework: Isolating Controls on Reservoir Architecture.

**Conoco Oil Company**, Dupont Research Support Grant - 1996-1997; **Principal Investigator**, with R.H. Goldstein: \$10,000 - A New Approach for Evaluating Controls on Depositional Sequence Architecture.

**University of Kansas Energy Research Center** - 1996-1997; **Principal Investigator**: \$2,500 - Study of Depositional, Structural, and Diagenetic Controls on Reservoir Characteristics of Arbuckle Strata in Kansas.

**University of Kansas Research Development Fund** – 1996; **Co-PI**, with R. Plumb, T. Carr, G. Abers, C. Allen, R. Black, K. Demarest, J. Kruger, W. Macpherson, M. Sophocleous, D.

Steeple, M. Townsend, and W. Watney: \$42,625 - Ground-Penetrating Radar Acquisition.

**Elf Aquitaine Oil Company, Institut Français du Pétrole, Shell International E&P B.V., Exxon Production Research Company** – 1996; **Co-PI** with W. Watney, E. Rankey, and R.H. Goldstein: \$7000 - Partial subsidy of the SEPM International Workshop “Numerical Experiments in Stratigraphy”, University of Kansas.

**Exxon Production Research Company** – 1994; **Principal Investigator**, with R. H. Goldstein: \$5,000 - Sequence stratigraphy of Miocene rocks of the Mediterranean region.

**Texaco Oil Company** – 1994; **Principal Investigator**, with R. H. Goldstein: \$5,000 - Sequence stratigraphy of Miocene rocks of the Mediterranean region.

**United States Department Of Energy** - 1992-1994; **Principal Investigator**, with T.R. Carr, R.H. Goldstein, and W.L. Watney: \$30,000 - EPSCoR Traineeship.

**British Petroleum Exploration, Unocal Oil Company, Arco Oil Company, Exxon Production Research Company** – 1992; **Co-PI**, with A. Simo, and M.T. Harris: \$11,000 - Partial subsidy of the SEPM/IAS Research Conference "Carbonate Stratigraphic Sequences: Sequence Boundaries and Associated Facies", La Seu, Spain.

**Exxon Production Research Company** - 1991-1994; **Principal Investigator**: \$5,500 - Stratigraphic Sequences within an Upper Miocene Reef Complex, Cap des Trois Fourches, Northern Morocco.

**Exxon Production Research Company** - 1990-1994; **Principal Investigator**, with R.H. Goldstein: \$15,000 - Diagenesis of Miocene strata of SE Spain.

**Texaco Oil Company** - 1990-1992; **Principal Investigator**, with R.H. Goldstein: \$10,000 - Diagenesis of Miocene strata of SE Spain.

**British Petroleum Oil Company** - 1990-1992; **Principal Investigator**, with R.H. Goldstein: \$10,000 - Diagenesis of Miocene strata of SE Spain.

**Amoco Oil Company** - 1990-1991; **Principal Investigator**, with R.H. Goldstein: \$4,000 - Diagenesis of Miocene strata of SE Spain.

### **INVITED PRESENTATIONS, DUTIES, AND CONFERENCES**

**Invited Presentation** – “ A New Concept in Sequence Stratigraphy: Build-and-Fill Sequences in Carbonate-Dominated Systems, University of Nebraska-Lincoln, Mylan T. Stout Lecture Series Seminar, 2013

**Invited Session Chair** – Interplay of Evaporites and Carbonates Including Microbialites, AAPG Annual Meeting, 2013

**Invited Session Chair** – Modern Carbonates, AAPG Annual Meeting, 2013

**Invited Session Chair** – Carbonates and Evaporites I & II, AAPG Annual Meeting, 2013

**Invited Session Chair** – Microbial Carbonate Reservoirs, Reservoir Analogs, and Geologic Models, AAPG Hedberg Conference, 2012

**Invited Session Chair** – Carbonates in Time and Space: Sedimentology, Stratigraphy, and Diagenesis, GSA Annual Meeting, 2012

**Invited Attendee** – AGI Leadership Forum and Congressional Visit, Washington, D.C., 2012

**Invited Attendee** - GSA Associated Societies Meeting, Boulder, Colorado, 2012

**Invited Attendee** - 32<sup>nd</sup> AAPG Annual Leadership Days in Tulsa, OK, 2012

**Invited Presenter** - Microbial Carbonates, AAPG Hedberg Conference, 2012

**Invited Presenter** – Heterozoan Carbonate Systems Session, GSA Meeting, 2012



- Invited Presenter** - The Geoscientist Retention & Recruitment Crisis, Kansas Geologic Survey Advisory Council, August, 2012.
- Invited Presenter** - The Kansas Interdisciplinary Carbonates Consortium (KICC), Kansas Geologic Survey Advisory Council, April, 2012.
- Invited presentation**, “Three-dimensional Models for Porosity and Permeability Distribution in Shallow-water Carbonates of the Terminal Carbonate Complex, SE Spain”, ExxonMobil FC<sup>2</sup> Conference, Leoben, Austria, August 24, 2010.
- Invited presentation co-author**, “Ground-Penetrating Radar Imaging of Facies Distribution in a Carbonate Reservoir Analog”, Geophysical Society of Kansas ‘Geophysics in the 21<sup>st</sup> Century’ symposium, Wichita, KS, October 29, 2010.
- Invited session chair**, Origin of Carbonate Breccia Systems - Multiphase Systems, Multi-time Events & Reservoir Quality, 2009 AAPG/SEPM Meeting, Denver, CO.
- Invited presentation**, “Miocene-Pliocene Carbonate Complexes in SE Spain Research Program”, Shell Oil Company, Houston Texas, November 18, 2008.
- Invited session chair**, Carbonate-dominated Deep-water Depositional Systems, 2008 AAPG/SEPM Meeting, San Antonio, TX.
- Invited co-convenor**, NSF Workshop - Community Sedimentary Model Science Plan for Carbonate Systems, February 2008, Golden, CO.
- Invited presentation**, “Miocene-Pliocene Carbonate Complexes in SE Spain Research Program”, ExxonMobil Research Lab, Houston Texas, September 27, 2007.
- Invited presentation**, "Update on Construction Aggregate Projects at the KGS", Kansas Aggregate Producers Association 40<sup>th</sup> Annual Joint Convention, January 10-12, 2007, Kansas City.
- Invited presentation**, “Introduction to the Stratigraphic Research Section”, Kansas Geological Survey Advisory Committee Meeting, March 31, 2006.
- Invited presentation**, "Contrasting Styles and Common Controls on Middle Mississippian and Upper Pennsylvanian Carbonate Platforms in the Upper Midcontinent, U.S.A.", Denver chapter of SIPES, January 26, 2006
- Invited presentation**, "Evaluating structural controls and their role in forecasting properties of Phanerozoic rocks in the Northern Mid-Continent, USA-- Ancient examples and modern analogs", Kansas Geological Society Technical Meeting, Wichita, May, 4, 2006.
- Invited presentation**, "Construction Aggregate Research and Materials Inventory Projects, Kansas Geological Society Geofest Meeting, October 30, 2006, Lawrence, Kansas.
- Invited presentation**, "Construction Aggregate Research and Materials Inventory Projects, Kansas Geological Society Geofest Meeting, October 30, 2006, Lawrence, Kansas.
- Invited presentation**, "Update on Aggregate-Related Research”, Kansas Aggregate Producers Association 39<sup>th</sup> Annual Joint Convention, January 12-14, 2006, Kansas City.
- Invited presentation**, "Spectral Gamma Ray Scintilometer as a 1<sup>st</sup> Cut Tool for Aggregate Quality”, Transportation Research Board Symposium and 56<sup>th</sup> Annual Highway Symposium, May 3-6, 2005, Wilmington, NC.
- Invited presentation**, "Spectral Gamma Ray Scintilometer as a 1<sup>st</sup> Cut Tool for Aggregate Quality”, Kansas Aggregate Producers Association 38<sup>th</sup> Annual Joint Convention, January 13-15, 2005, Kansas City.
- Invited book review** for Palaios, “Paleozoic Carbonates of the Commonwealth of Independent States (CIS): Subsurface Reservoirs and Outcrop Analogs”, SEPM Special Publication #74, 2002, 245p.

**Invited paper** for *Geotimes*, 2004 Highlights in Carbonate Research: Highlights in the Earth Sciences Issue.

**Invited presentation**, "Build-and-Fill: A Stratigraphic Pattern Induced in Cyclic Sequences by Sea Level and Paleotopography", GSA 2004 Annual Meeting.

**Invited presentation**, "Build-and-Fill Sequences: Predictable Patterns of Creation and Destruction of Paleotopography in Small-Scale Sequences", AAPG 2004 Annual Convention.

**Invited presentation**, "Evaluation of Some Geologic Factors Affecting the Quality of Limestone Construction Aggregate" at the 55<sup>th</sup> Highway Geology Symposium, September 7-10, 2004, Kansas City.

**Invited Editor**, for *GEOLOGY* (Journal of the Geological Society of America), 2004-2007.

**Invited paper** for *Geotimes*, 2003 Highlights in Carbonate Research: Highlights in the Earth Sciences Issue

**Invited presentation**, "Revision of Scientist Evaluation System", Kansas Geological Survey Advisory Council Meeting, June 9, 2003.

**Invited co-chair**, SEPM Carbonate Research Group, 2002-2003.

**Invited session chair**, Differentiating Controls on Carbonate-Evaporite Systems, 2003 AAPG/SEPM Annual Meeting, Salt Lake City.

**Invited session chair**, Stratigraphic, Biologic, and Geochemical Proxies for Paleoclimate, 2003 AAPG/SEPM Annual Meeting, Salt Lake City.

**Invited presentation**, Geologic Perspectives on Arbuckle Reservoirs in Kansas: 15<sup>th</sup> Oil Recovery Conference, March 12-13, 2003, Wichita, Kansas.

**Invited presentation**, Geologic Character of Arbuckle Strata in Kansas: Arbuckle Polymer Treatment Forum Session, February 4, 2003, Wichita, Kansas.

**Invited team leader**, 2002 AAPG Grants-in-Aid Committee.

**Invited presentation**, "Significance of Depositional and Early Diagenetic Controls on Reservoir Properties in a Complexly Overprinted Mississippian (Osagean) Cherty-Dolomitic Reservoir; Schaben Field, Ness Co., Kansas", University of Tulsa, Department of Geosciences, November 14, 2001.

**Invited paper**, "Climate Cyclicity in the Pennsylvanian of the Midcontinent: Impact on Sequence Architecture", The Roles of Climate, Sediment Supply, and Structure on Sequence Development: Global vs. Local Controls Session, AAPG/SEPM Annual Meeting, Denver, Colorado, 2001.

**Invited paper**, "Control of Original Basin Geomorphology on Sequences and Sediment Dispersal in Adjacent Basins", Structure and Stratigraphy as a paired Process-Response System in Carbonates Session, AAPG/SEPM Annual Convention, New Orleans, Louisiana, 2000.

**Invited book review** for Palaios, "Advances in Carbonate Sequence Stratigraphy: Application to Reservoirs, Outcrops, and Models", SEPM Special Publication #63, 2000.

**Invited presentation**, "Pinning Points: A Method for Quantifying Relative Sea-Level History and Evaluating Other Controls on Depositional Sequences", University of Wisconsin-Madison, Department of Geology and Geophysics, October 20, 1999.

**Invited paper**, for a session on Causes and Effects of Rapid Sea-Level Changes on Reefs and Carbonate Platforms, International Symposium on Paleooceanology of Reefs and Carbonate Platforms: Miocene to Modern, September 1999, Aix-en-Provence, France. One of three invited speakers in session.

- Invited paper**, “Paleovalley Controls on Carbonate Sequence Architecture and Sediment Dispersal”, Carbonate Platform Systems - Processes, Facies, and Reservoirs Session, AAPG/SEPM Annual Meeting, San Antonio, Texas, 1999.
- Invited presentation**, “Evolution of Upper Miocene Carbonate Complexes in the Western Mediterranean: A Record of Global, Regional and Local Controls”, University of Tennessee, Department of Geological Sciences, March 9, 1999.
- Invited presentation**, "Significance of Depositional and Early Diagenetic Controls on Architecture of a Karstic-Overprinted Mississippian (Osagian) Reservoir, Schaben Field, Ness County, Kansas": Kansas Geological Society Technical Meeting, Wichita, KS, February 16, 1999.
- Invited presentation**, “Pinning Points: A Method Providing Quantitative Constraints on Relative Sea-Level History”, Indiana University, Sequence Stratigraphy and Cyclostratigraphy Graduate Seminar Lecture, January 26, 1999.
- Invited presentation**, “Evolution of Upper Miocene Carbonate Complexes in the Western Mediterranean: A Record of Global, Regional and Local Controls”, Indiana University, Geology Department Seminar Series, January 25, 1999.
- Invited paper** for a special issue of *The Compass*, 1999.
- Invited presentation**, “Evolution of Upper Miocene Carbonate Complexes in the Western Mediterranean: A Record of Global, Regional and Local Controls”, University of Southern California, Geology Department Seminar Series, October 5, 1998.
- Invited presentation**, “New Advances in Carbonate Sequence Stratigraphy”, University of Southern California, Carbonate Stratigraphy Graduate Course Lecture, October 6, 1998.
- Invited member of the Technical Committee** for the Seventh International Conference on Ground Penetrating Radar, University of Kansas, 1998.
- Invited paper**, “Significance of Depositional and Early Diagenetic Controls on Architecture of a Karstic-Overprinted Mississippian (Osagian) Reservoir, Schaben Field, Ness County, Kansas”: Marine Carbonate Sedimentology, Diagenesis and Geochemistry Session, AAPG/SEPM Annual Meeting, Utah, 1998.
- Invited session chair**, Applied Quantitative Stratigraphic Modeling Session, AAPG/SEPM Annual Meeting, Texas, 1997.
- Invited book review** for *Geotimes*, “Sedimentary Deposition in Rift and Foreland Basins in France and Spain”, 1997.
- Invited paper**, “Effect of Rates of Relative Sea-Level Change and Setting on Carbonate Depositional Sequences”: SEPM Research Symposium: Application of Sequence Stratigraphy to Carbonate Reservoirs and Outcrops, Texas, 1997.
- Invited paper**, “Effects of Climate, Substrate-Paleoslope, Sea-Level History and Paleoceanography on Carbonate Platform Evolution: Revelations from Upper Miocene Strata of the Western Mediterranean”: SEPM/IAS Research Conference on Carbonates and Global Change: An Interdisciplinary Approach, Switzerland, 1996.
- Invited paper** for the SEPM Special Publication, *Cool-water Carbonates*, 1995.
- Invited to run for President**, SEPM Midcontinent Section, 1995.
- Invited to run for 2nd Vice-Chair**, Sedimentary Geology Division, Geological Society of America.
- Invited paper**, “Sedimentary Responses to Relative Sea-level Falls Controlled by Paleoslope, Facies, and Climate: Examples from Upper Miocene Carbonate Sequences, SE Spain”:

- Research Conference on Sedimentary Responses to Forced Regressions: Recognition, Interpretation and Reservoir Potential, Geological Society of London, England, 1995.
- Invited session chair**, Research Conference on Sedimentary Responses to Forced Regressions: Recognition, Interpretation and Reservoir Potential: Geological Society of London, England, 1995.
- Invited paper**, “Carbonate Bypass Ramps Controlled by Substrate Paleoslope, Late Miocene of Southeastern Spain: General Implications for Sequence Stratigraphy”: High-Resolution Sequence Stratigraphy at the Outcrop in Europe Session, AAPG International Conference, France, 1995.
- Invited paper**, “Effects of Relative Sea-Level Changes on Facies and Diagenetic Variability of a Pennsylvanian Outcrop and Near-Surface Reservoir Analog, SE Kansas (Missourian, Drum Limestone)”: High-Resolution Sequence Stratigraphy at the Outcrop, Outside of Europe Session, AAPG International Conference, France, 1995.
- Invited paper**, “Paleoslope, Sea Level and Climate Controls on Upper Miocene Ramp to Fringing Reef Depositional Sequences, SE Spain”: Outcrop Studies of Carbonate and Evaporite Depositional Systems Session, AAPG/SEPM Annual Convention, Texas, 1995.
- Invited presentation**, “Depositional, Structural, and Diagenetic Controls on Reservoir Characteristics of Arbuckle Strata in Kansas”: Energy Research Clearing House Technical Meeting, Texas, 1995.
- Invited presentation**, “Burial Diagenesis and Porosity Creation/Prediction in Carbonates, Arbuckle Formation, Kansas: An Analog for Other Reservoirs”: Texaco Research, 1995.
- Invited presentation**, “Sequence Stratigraphy of Miocene Carbonates in SE Spain and Comparison to Tertiary Carbonates in the Far East”: Texaco Research, 1995.
- Invited presentation**, “Guadalupe Mountains Sequence Stratigraphy with Emphasis on the Grayburg Formation Ramp Development and Demise”: Texaco Research, 1995.
- Invited co-convenor**, Numerical Experiments in Stratigraphy: An International Workshop, University of Kansas, 1995.
- Invited to be lead editor** for an SEPM Concepts in Sedimentology and Paleontology Series, Models for Carbonate Stratigraphy from Miocene Reef Complexes of Mediterranean Regions, 1994.
- Invited to submit slides** for an SEPM Photo CD-ROM Series, Ancient Carbonates, 1994.
- Invited member** of the Scientific Committee, Regional Committee on Mediterranean Neogene Stratigraphy, 1994.
- Invited session chair**, Regional Committee on Mediterranean Neogene Stratigraphy, Interim Colloquium on Miocene Reefs and Carbonate Platforms of the Mediterranean, University of Provence, France, May, 1994.
- Invited paper**, "Sequence Stratigraphy and Quantitative Relative Sea-Level History for Late Miocene Carbonate Complexes, Las Negras Area, Southeastern Spain”: Regional Committee on Mediterranean Neogene Stratigraphy, Interim Colloquium on Miocene Reefs and Carbonate Platforms of the Mediterranean, University of Provence, France, 1994.
- Invited paper**, “High-Resolution Sequence Stratigraphy and Magnetostratigraphy for the Melilla Basin, Northeastern Morocco: Implications for Regional and Global Controls on Sequence Development”: Regional Committee on Mediterranean Neogene Stratigraphy, Interim Colloquium on Miocene Reefs and Carbonate Platforms of the Mediterranean, University of Provence, France, 1994.

- Invited paper** for the Kansas Geological Survey Bulletin, A Geophysical Atlas of Kansas, 1993.
- Invited lecture**, "Sequence Stratigraphy of the Guadalupe Mountains, Texas and New Mexico"; for the Sacramento and Guadalupe Mountains Graduate Student Field Trip Class, Geology Department, University of Kansas, 1992.
- Invited presentation**, "Research in the Carbonate Sedimentology and Sequence Stratigraphy Program in Kansas"; Kansas Geological Survey Advisory Council Meeting, 1992.
- Invited presentation**, "The Drum Limestone Reservoir Analog Project in Southeast Kansas"; the University of Kansas Geology Department Geology Associates Advisory Board Meeting, 1992.
- Invited paper** for the American Association of Petroleum Geologists Memoir, Carbonate Sequence Stratigraphy: Recent Developments and Applications, 1991.
- Invited lecture**, "Sequence Stratigraphy of the Western Escarpment of the Guadalupe Mountains, Texas": Sequence Stratigraphy Seminar, University of Kansas Geology Department, 1991.
- Invited presentation**, "Deposition and Erosional Destruction of the Grayburg Carbonate Bank at the Shelf Margin, Western Escarpment, Guadalupe Mountains, Texas": Kansas State University Geology Seminar Series, 1991.
- Invited presentation**, "Depositional Sequences and Methods for Correlating Upper Miocene Carbonate Complexes, Southeastern Spain: Oregon State University, Department of Geosciences, 1991.
- Invited paper**, "Geometry and Stratigraphic Relationships of the Pennsylvanian Drum Oolite and Related Units, Southeastern Kansas": Reservoir Description Workshop-Application of Underutilized Technologies, AAPG Mid-Continent Section Meeting, Kansas, 1991.
- Invited field trip leader**, "Stratigraphy and Depositional History of the Drum Limestone and Associated Strata (Pennsylvanian) in the Independence Area, Kansas", AAPG Mid-Continent Section Meeting, Kansas, 1991.
- Invited presentation**, "Depositional Sequences and Correlation of Middle to Upper Miocene Reef Complexes, Las Negras Area, SE Spain": British Petroleum Exploration, England, 1990.
- Invited presentation**, "Diagenesis of Miocene Reef Complexes within a Sequence-Stratigraphic Framework in SE Spain": British Petroleum Research, England, 1990.
- Invited presentation**, "Upper Miocene Reefs of the Western Mediterranean with an emphasis on Spanish Miocene Reefs": University of Wisconsin and SUNY-StonyBrook Miocene Reef Workshop, Wisconsin, 1990.
- Invited lecture**, "Miocene Reef Complexes of Southeast Spain and the Balearic Islands": the University of Kansas Carbonate Research Group, Kansas University Geology Department, 1989.
- Invited presentation**, "Depositional Sequences and Correlation of Upper Miocene Carbonate Complexes, Las Negras Area, Southeastern Spain": Kansas State University, Geology Department Seminar Series, 1989.
- Invited presentation**, "Sequence Stratigraphy and the Use of Relative Sea-level Curves for Correlating Upper Miocene Carbonate Complexes, Southeastern Spain": University of Kansas Geology Department Colloquium Series, 1989.
- Invited presentation**, "Upper Miocene Reef Complexes of the Western Mediterranean - Models for Carbonate Stratigraphy": Pecten International Company, Texas, 1988.

- Invited presentation**, “Sequence Stratigraphy and Relative Sea-level History of Upper Miocene Reef Complexes, Las Negras Area, SE Spain”: Exxon Production Research Company, Texas, 1988.
- Invited presentation**, “Sequence Stratigraphy of Upper Miocene Carbonate Complexes, SE Spain: Important Implications for Correlation and Sea Level Changes: Arco Oil and Gas Company, February, 1988.
- Invited presentation**, “Sequence Stratigraphy of Upper Miocene Carbonate Strata in SE Spain - A Model for Western Mediterranean Upper Miocene Carbonate Complexes”: Tulane University, Department of Geology, 1988.
- Invited paper**, “Depositional Sequences and Correlation of Middle-Upper Miocene (Serravallian through Messinian) Reef Complexes, Nijar and Las Negras Areas, Southeastern Spain”: SEPM Research Symposium, Miocene Reefs: A Global Comparison, Texas, 1988.
- Invited paper**, “Mid-Permian Erosion Surfaces, Western Escarpment, Guadalupe Mountains, Texas”: SEPM Research Symposium, Controls on Carbonate Platform and Basin Development, California, 1987.
- Invited paper** for the SEPM Special Publication, Controls on Carbonate Platforms and Basin Development, 1987.
- Invited presentation**, “Models of Miocene Reef Complexes of the Western Mediterranean”: Marathon Oil Company, Colorado, 1987.
- Invited presentation**, “Sedimentology and Diagenesis of the Las Negras Miocene Reef Complex, Southeastern Spain: Important Implications for Correlation and Sea-Level Changes”: Marathon Oil Company, Colorado, 1987.
- Invited presentation**, “The Permian Grayburg Formation and the Associated Erosion Surface, Western Escarpment, Guadalupe Mountains, Texas: New Data-Updated Interpretations”: Exxon Production Research Company, Texas, 1987.
- Invited presentation**, “Sequence Stratigraphy of Middle to Late Miocene Carbonate Complexes in the Las Negras Area ,SE Spain: Implications for Correlation and Relative Sea-Level History”: Northern Illinois University, Department of Geology, 1987.
- Invited presentation**, “Deposition and Erosion of the Permian Grayburg Formation, Western Escarpment, Guadalupe Mountains, Texas”: SEPM-PBS Field Seminar on the San Andres-Grayburg Formations of the Guadalupe Mountains, New Mexico and Texas, New Mexico, 1986.
- Invited paper** for the PBS-SEPM Publication, Lower and Middle Guadalupian Facies, Stratigraphy and Reservoir Geometries, San Andres/Grayburg Formations, Guadalupe Mountains, New Mexico and Texas, 1986.

## **REVIEWER FOR GRANTING AGENCIES, JOURNALS, VOLUMES**

American Chemical Society - Petroleum Research Fund  
 National Science Foundation  
 Journal of Sedimentary Petrology  
 Geological Society of America Bulletin  
 Geology  
 Journal of Sedimentary Research  
 SEPM Concepts in Sedimentology and Paleontology

SEPM Special Publication  
AAPG Bulletin  
AAPG Memoir  
Proceedings of the Ocean Drilling Program  
Journal of Paleontology  
Palaios  
Marine Geology  
Kansas Geological Survey Bulletin  
Oklahoma Geological Survey Special Publication  
SEPM Rocky Mountain Section Special Publication  
Sedimentology  
Sedimentary Geology  
The Journal of Geology  
Géologie Méditerranéenne  
Comptes Rendus de l'Académie des Sciences  
Geological Society of London  
Natural Resources Research

#### **REVIEWER FOR PROMOTION AND TENURE NOMINATIONS**

- 2010** – External reviewer for promotion consideration of Dr. Xavier Janson to Research Scientist at the Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin.
- 2005** – External reviewer for promotion consideration of Dr. Roger Young to Full Professor, University of Oklahoma.
- 2002** – External reviewer for promotion consideration of Dr. Steve Dorobek to Endowed Chair position, Texas A&M University.
- 1995** - External reviewer for promotion and tenure consideration of Dr. Carol Mankiewicz to Associate Professor, Beloit College, Wisconsin.