

CURRICULUM VITAE

Full Name: GOLDSTEIN, ROBERT H.
Born: 22 November, 1957, Baltimore, Maryland.
Education: Juniata College, B.S., 1979.
University of Wisconsin, M.S., 1981.
University of Wisconsin, Ph.D., 1986.

ACADEMIC APPOINTMENTS:

2011-present	Associate Dean , Natural Sciences and Mathematics, College of Liberal Arts and Sciences, University of Kansas
2000-present	Distinguished Professor , Haas Professor of Geology, University of Kansas
2010-2011	Visiting Scientific Fellow , ConocoPhillips Technology
2009-2010	Faculty Fellow , Center of Teaching Excellence
2004-2009	Department Chair , University of Kansas
2006-2007	Co-Director , Energy Research Center
1996-2000	Full Professor , University of Kansas
1991 - 1996	Associate Professor with tenure, University of Kansas
1994	Acting Chairperson , Department of Geology, University of Kansas
1993 (sabbatical)	Visiting faculty , SUNY Stony Brook
1992 (sabbatical)	Visiting Scientist , USGS, Denver
1986 - 1991	Assistant Professor , University of Kansas
1985 - 1986	Acting Assistant Professor , University of Kansas
1982 - 1985	University of Wisconsin, Exxon Doctoral Fellow
1981 - 1982	University of Wisconsin, Conoco Research Contract
1980 - 1981	University of Wisconsin, Research Assistant
1979 - 1980	University of Wisconsin, Teaching Assistant
1977 - 1979	Juniata College, Laboratory Assistant

AWARDS AND HONORS:

University of Kansas

SEPM Society for Sedimentary Geology 2011 National Excellence Award for Poster

SEPM Society for Sedimentary Geology 2010 National Outstanding Poster Award

AAPG Rocky Mountain Rendezvous 2010 Best student poster award – presented by Katharine Knoph

University of Kansas Center for Teaching Excellence 2010 *Celebration of Teaching Award* – For major beneficial impact on students in the Department of Geology

SEPM Society for Sedimentary Geology 2006 *Journal of Sedimentary Research* best paper award

Geotimes (2004) Three papers listed as Highlights of Discoveries in the Earth Sciences for 2003

Geotimes (2003) Listed paper as one of the Highlights of Discoveries in the Earth Sciences for 2002

SEPM Society for Sedimentary Geology 2003 Finalist, Best Paper in Journal of Sedimentary Research

SEPM Society for Sedimentary Geology 2002 Honorable mention, Best Paper in Journal of Sedimentary Research

SEPM Society for Sedimentary Geology 2002 National Excellence Award for Poster

SEPM Society for Sedimentary Geology 2001 Honorable mention National Excellence Award for Poster

University of Kansas Center for Teaching Excellence 2000 Award for excellence in classroom teaching

SEPM Society for Sedimentary Geology 1998 National Excellence Award for Poster

University of Kansas, Dept. of Geol. 1998 **Van Sant Excellence Award - for excellence in teaching and research** in sedimentary geology

University of Kansas 1997 W.T. Kemper Fellowship for Teaching Excellence

SEPM Society for Sedimentary Geology 1997 Honorable mention National Excellence Award for Poster

SEPM Society for Sedimentary Geology 1996 National Excellence Award for Poster

University of Kansas, Dept. of Geol. 1994 **Van Sant Excellence Award - for excellence in teaching and research** in sedimentary geology

SEPM Society for Sedimentary Geology Honorable Mention 1993 for Best Poster at National Meeting

University of Kansas 1991 **Silver Anniversary Award for Excellence in Classroom Teaching**

SEPM Society for Sedimentary Geology 1988 Honorable Mention for Best Poster at National Meeting

University of Wisconsin

Sigma Xi Scientific Honor Society
Phi Kappa Phi Honor Society

Juniata College

Who's Who in American Colleges and Universities
Danforth Fellowship Nominee
Dean's List
NAGT Summer Scholarship
Alice Blaisdell Prize for Geology and Mathematics
Graduation with honors

TEACHING EXPERIENCE:

University of Kansas

Carbonate Diagenesis - Advanced lecture and laboratory course dealing with the theory and application of techniques for the study of diagenesis of carbonate rocks.

Seminar in Sequence Stratigraphy - Advanced seminar in theory and application of sequence stratigraphy. Co-taught with Evan Franseen.

Myths, Science and Things Between - Liberal Arts and Science class designed to fill interdisciplinary niche in the natural sciences. Cooperated with team to design course, lectured and conducted discussions.

Sea-Level Changes; graduate seminar included lectures, discussion, and student projects.

Introduction to Geology; lectured to large group of students.

Carbonate Depositional Systems; lectured, structured labs, led discussion.

Regional Field Geology; team taught with Evan Franseen. Led field trip to SE Spain, delivered introductory lectures.

Regional Field Geology; team taught with Paul Enos and Evan Franseen in alternate years. Led field trip to New Mexico, delivered introductory lectures.

Fluid Inclusion Geochemistry; graduate seminar included lectures, discussion and student research projects published and presented at PACROFI meetings.

Introduction to Stratigraphy; lectured to senior geology majors, structured laboratory. Led four-day field trip.

History of the Earth; lectured to undergraduates.

Geochemical Methods in Carbonate Diagenesis Studies; graduate seminar including lectures on fluid inclusions, stable isotopes and trace elements followed by a geochemical research project on diagenesis across biomere boundaries.

University of Wisconsin Madison

Carbonate Sedimentology. Developed and delivered lectures and laboratory exercises concerning the diagenesis of carbonate rocks. 1983 and 1984, three weeks each.

Geologic Field Methods. Conducted and developed laboratory exercises and field trips. Fall Semester, 1983.

Physical Sedimentology. Lectured on various topics in clastic sedimentology. 1983, three weeks.

Stratigraphy. Conducted laboratory sections. 1980, spring semester.

Introduction to Geology. Conducted laboratory and discussion sections. Fall Semester, 1979.

Juniata College

Mineralogy. Petrography. Igneous and Metamorphic Petrology. Laboratory assistant. 1977 - 1979, five semesters.

RESEARCH EXPERIENCE:

1985 - present. University of Kansas. Goldstein's research specialties include sequence stratigraphy of carbonates, diagenesis, and fluid-inclusion research. Current research focuses on the following: (1) sea-level, paleotopographic, oceanographic, and climate controls on depositional sequence architecture of the Spanish Miocene; (2) modeling reservoir-analog architecture in deep-water and shallow water carbonates; (3) predicting porosity in reservoirs from new conceptual models of carbonate diagenesis; (4) effect of hydrothermal fluids on carbonate and sandstone reservoir rocks; (5) origin and distribution of early and late dolomite; (6) new fluid inclusion techniques for constraining thermal evolution of sedimentary systems; and (7) new fluid inclusion techniques for evaluating history of fluid composition. Currently, he and his students are working on a variety of projects dealing with upstream fossil fuel energy supply including both conventional and unconventional oil and gas resources.

1981 - 1985. University of Wisconsin - Madison. Ph.D. research. **A.** Sedimentology, diagenesis and geochemistry of Pennsylvanian and Permian rocks of the Sacramento Mountains, New Mexico. **B.** Use of fluid inclusions as indicators of physical and chemical conditions of cementation. Dr. Lloyd C. Pray, advisor.

1979 - 1981. University of Wisconsin - Madison. M.S. research. Core study of stratigraphy and sedimentology of Pleistocene clastic sediments from the Canada Basin, Arctic Ocean. Dr. David L. Clark, advisor.

1981 (summer) Conoco Exploration Research, Ponca City, Oklahoma. Research geologist. Geochemistry of cement precipitation. Dr. Roger McLimans, supervisor.

1979 (summer) Gulf Research and Development Company, Harmarville, Pennsylvania.

Research geochemist. Fluid inclusions and petroleum migration. Dr. Robert Burruss, supervisor.

1979. Juniata College, Huntingdon, Pennsylvania. Senior thesis. Diagenesis of Juniata and Bald Eagle Sandstones, Central Pennsylvania.

1978. Juniata College, Huntingdon, Pennsylvania. Student research. Atomic absorption spectrophotometer analysis of ultramafic rocks.

PEER REVIEWED BOOKS

Harbaugh, J, Watney, L, Rankey, E., Slingerland, R., **Goldstein**, R, and Franseen, E. (eds.), 1999. Numerical Experiments in Stratigraphy: Recent Advances in Stratigraphic and Sedimentologic Computer Simulations: SEPM Special Publication #62, 362 pp and CD-ROM

Goldstein, R. H and Reynolds, T. J., 1994, Systematics of Fluid Inclusions in Diagenetic Minerals: SEPM Short Course #31, 212 pp.

PAPERS IN PRESS

Gregory S. Benson, Evan K. Franseen, Robert H. Goldstein, Zhaoqi Li (in press) Workflows for Incorporating Stratigraphic and Diagenetic Relationships into a Reservoir-Analog Model from Outcrops of Miocene Carbonates in Southeastern Spain: *Petroleum Geoscience*

Erin M. Ramaker, Robert H. Goldstein, Evan K. Franseen, W. Lynn Watney (in press) What controls porosity in cherty fine-grained carbonate reservoir rocks? Impact of stratigraphy, unconformities, structural setting and hydrothermal fluid flow: Mississippian, southeast Kansas: S. Agar and S. Geiger, eds., Fundamental Controls on Fluid Flow in Carbonates: Current Workflows to Emerging Technologies, Geol. Soc. London and AAPG Special Publication

Erik J. Hiemstra and Robert H. Goldstein (in press) Repeated injection of hydrothermal fluids into downdip carbonates: a diagenetic and stratigraphic mechanism for localization of reservoir porosity, Indian Basin field, New Mexico, USA: S. Agar and S. Geiger, eds., Fundamental Controls on Fluid Flow in Carbonates: Current Workflows to Emerging Technologies, Geol. Soc. London and AAPG Special Publication

Zhaoqi Li, Robert H. Goldstein, and Evan K. Franseen (in press): Geochemical record of fluid flow and dolomitization of carbonate platforms, Ascending freshwater mesohaline mixing, La Molata, Spain: S. Agar and S. Geiger, eds., Fundamental Controls on Fluid Flow in Carbonates: Current Workflows to Emerging Technologies, Geol. Soc. London and AAPG Special Publication

PAPERS PUBLISHED

Paul A. Kenward, Masato Ueshima, David A. Fowle, Robert H. Goldstein, Luis A. González, Jennifer A. Roberts (2013) Ordered low-temperature dolomite mediated by carboxyl-group density of microbial cell walls: *AAPG Bulletin*, v. 97, no. 11, p. 2113-2125.

Robert H. Goldstein, Evan K. Franseen, and Christopher J. Lipinski (2013) Topographic and Sea-Level Controls on Oolite-Microbialite-Corallgal Reef Sequences: The Terminal Carbonate Complex of Southeast Spain: *AAPG Bulletin*, v. 97, no. 11, p. 1997-2034.

Christopher J. Lipinski, Evan K. Franseen and Robert H. Goldstein (2013) Reservoir-Analog Model for Oolite-Microbialite Sequences, Miocene Terminal Carbonate Complex, Spain: *AAPG Bulletin*, v. 97, no. 11, p. 2035-2057.

Zhaoqi Li, Robert H. Goldstein, and Evan Franseen, 2013, Freshwater mesohaline mixing: A new scenario for dolomitization: *Journal of Sedimentary Research*, v. 83, 277–283 DOI:

10.2110/jsr.2013.24

Jennifer A. Roberts, Paul A. Kenward, David A. Fowle, Robert H. Goldstein, Luis A. González, David S. Moore, and Mason Burgess (2013) Surface chemistry allows for abiotic precipitation of dolomite at low temperature *Proceedings of the National Academy of Sciences*
www.pnas.org/cgi/doi/10.1073/pnas.1305403110

Julienne Ruth Emry, Robert Goldstein and Evan K. Franseen (2012) A First-Cut Method to Evaluate Limestone Aggregate Durability: *American Concrete Institute Materials Journal*, v. 109, p 557-564.

Goldstein, R.H., (2012) Fluid Inclusion Geothermometry in Sedimentary Systems: From Paleoclimate to Hydrothermal *in* N. Harris (ed) SEPM Special Publication, Analyzing the Thermal History of Sedimentary Basins: Methods and Case Histories, p. 45–63

Martin K. Dubois, Robert H. Goldstein, and Stephen T. Hasiotis (2012) Climate controlled aggradation and cyclicity of continental siliciclastic sediments in Asselian-Sakmarian cyclothem, Permian, Hugoton embayment U.S.A.: *Sedimentology*, v. doi: 10.1111/j.1365-3091.2012.01326

González-Acebrón, Laura, Goldstein, Robert H., Mas, Ramon, and Arribas, Jose, (2012) Easily altered minerals and reequilibrated fluid inclusions provide extensive record of fluid and thermal history: Gypsum pseudomorphs of the Tera Group, Tithonian-Berriasian, Cameros Basin. *Central European Journal of Geosciences*, v. 4, no. 2, p. 246-260

Laura González-Acebrón, R. H. Goldstein, Ramón Mas and José Arribas (2012) Answer to the comment of Casas et al. about González Acebrón et al.'s (2011) paper *International Journal of Earth Sciences*, Volume 101, Number 7, Pages 2049-2053

Robert H. Goldstein, Evan K. Franseen, Rachel A. Dvoretzky, and Rafferty J. Sweeney (2012) Controls on focused-flow and dispersed-flow deepwater carbonates: Miocene Agua Amarga Basin, Spain: *Journal of Sedimentary Research* v. 82, 499–520 DOI: 10.2110/jsr.2012.46

Buijs, Govert, and Goldstein, R.H. (2012) Sequence architecture and palaeoclimate controls on diagenesis related to subaerial exposure of icehouse cyclic Pennsylvanian and Permian carbonates: *in*, Marcelo Ketzer and Sadoon Morad (eds.), *Linking Diagenesis to Sequence Stratigraphy*, Int. Assoc. Sedimentol. Spec. Publ. (2012) 45, 55–80

Ritter, Matthew E. and Goldstein, Robert H. (2012) Diagenetic controls on porosity preservation in lowstand oolitic and crinoidal carbonates of original calcite mineralogy: *in*, Marcelo Ketzer and Sadoon Morad (eds.), *Linking Diagenesis to Sequence Stratigraphy*, Int. Assoc. Sedimentol. Spec. Publ. 45, 379–406

Paul A. Kenward, Robert H. Goldstein, Andrea E. Brookfield, Luis A. González and Jennifer A. Roberts (2012) Model for how microbial methane generation can preserve early porosity in dolomite and limestone reservoirs, *AAPG Bulletin*, v. 96, no. 3 (March 2012), pp. 399–413, DOI:10.1306/06021111020

É. Csoma and R. H. Goldstein, (2012) Diagenetic Salinity Cycles: A link between carbonate diagenesis and sequence stratigraphy: *in*, Marcelo Ketzer and Sadoon Morad (eds.), *Linking Diagenesis to Sequence Stratigraphy*, Int. Assoc. Sedimentol. Spec. Publ. 45, 407–444

Jennifer A. Roberts, Paul A. Kenward, David A. Fowle, Robert H. Goldstein, Luis A. González, and David S. Moore (2012) Low-Temperature Dolomite Formation: Microbes and other mechanisms: AAPG Hedberg Research Conference, “Microbial Carbonate Reservoir Characterization” AAPG Search and Discovery Article #90153

Robert H. Goldstein, Zhaoqi Li, and Evan K. Franseen (2012) Duration and Climate Effects on Meteoric Diagenesis: Non-Karstic Control on Distribution of Porosity and Permeability:

Fundamental Controls on Flow in Carbonates, AAPG/SPE/SEG Hedberg Research Conference Special volume, p. 129-133

Robert H. Goldstein, Evan K. Franseen, and Christopher J. Lipinski (2012) Controls on High-Frequency Oolite-Microbialite-Coral Reef Sequences, Upper Miocene, SE Spain: AAPG Hedberg Research Conference, "Microbial Carbonate Reservoir Characterization" AAPG Search and Discovery Article #90153

Christopher J. Lipinski, Evan K. Franseen, and Robert H. Goldstein (2012) Reservoir Analog Model for Oolite-Microbialite Sequences, Miocene Terminal Carbonate Complex, Spain: AAPG Hedberg Research Conference, "Microbial Carbonate Reservoir Characterization" AAPG Search and Discovery Article #90153

Gregory S. Benson, Evan K. Franseen, Robert H. Goldstein, Zhaoqi Li (2012) Data Collection, Interpretation, and Geologic Modeling of Outcrop: Cerro La Molata, Cabo de Gata, Spain: Fundamental Controls on Flow in Carbonates, AAPG/SPE/SEG Hedberg Research Conference Special volume, p. 81-86. *invited*

Robert H. Goldstein, Zhaoqi Li, and Evan K. Franseen, 2011, Diagenetic Controls on Character of Carbonate Reservoirs: Surfaces and Setting: Carbonate Geochemistry: Reactions and Processes in Aquifers and Reservoirs, Karst Waters Institute Special Publication 16, p. 31-34.

Laura González-Acebrón, R. H. Goldstein, Ramón Mas, and José Arribas, 2011, Criteria for recognition of localization and timing of multiple events of hydrothermal alteration in sandstones illustrated by petrographic, fluid inclusion, and isotopic analysis of the Tera Group, Northern Spain: *Int J Earth Sci (Geol Rundsch)* v. 100, p 1811-1826

Hartig, Katherine A. Soreghan, Gerilyn S., Goldstein, Robert H., and Engel, Michael H. (2011) Dolomite in Permian Paleosols of the Bravo Dome CO. Field: Permian Reflux Followed by Late Recrystallization at Elevated Temperature: *Journal of Sedimentary Research*, v. 81, p. 248-265

Katharine Knoph, Georgios Tsoflias, Evan Franseen and Robert **Goldstein**, 2010, Ground-Penetrating Radar Imaging of Facies Distribution in a Carbonate Reservoir Analog (expanded abstract): Conference Proceedings, Kansas Geophysics in the 21st Century, 5 pp.

P. A. Kenward, R. H. **Goldstein**, L. A. Gonzalez and J. A. Roberts (2009) Precipitation of low-temperature dolomite from an anaerobic microbial consortium: the role of methanogenic Archaea: *Geobiology*, v. 7, p. 556-565.

Goldstein, R.H., (2008) Changing conceptual models in carbonate diagenesis: in Karst from recent to reservoirs: Ira D. Sasowsky, Charles T. Feazel, John E. Mylroie, Arthur N. Palmer, Margaret V. Palmer (eds), International conference on paleokarst & multi-permeability flow systems, Karst-Waters Institute Special Publication 14, p. 81-88.

Ochoa, M., Arribas, J., Mas, R., and **Goldstein**, R.H., 2007, Destruction of a fluvial reservoir by hydrothermal activity (Camerós Basin, Spain): *Sedimentary Geology*, v. 202, p. 158-173.

Dillett, P., **Goldstein**, R.H., and Franseen, E.K., 2007, Paleotopographic and Sea-Level Controls on the Sequence Stratigraphic Architecture of a Heterozoan Carbonate Succession: Pliocene, Carboneras Basin: *in* Franseen, E.K., Goldstein, R.H., and Esteban, M., eds., Controls on Porosity Types and Distribution in Carbonate Reservoirs - A Guidebook for the Miocene Carbonate Complexes of the Cabo de Gata Area, SE Spain: American Association of Petroleum Geologists Education Program, p. 139-149.

Lianshuang Qi, Timothy R. Carr, and Robert H. **Goldstein**, 2007, Geostatistical three-dimensional modeling of oolite shoals, St. Louis Limestone, southwest Kansas: *AAPG Bulletin*, v. 91, no. 1 (January 2007), pp. 69-96

Lianshuang Qi, Timothy R. Carr, and Robert H. **Goldstein**, 2006, An integrated geostatistical approach: Constructing 3D models and simulation of St. Louis carbonate reservoir systems: in

- Roger M. Slatt (ed.), Reservoir Characterization: Integrating Technology and Business Practices, Proceedings 26th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, Houston Texas, December 3-6, 2006, p. 1041-1088.
- Julienne Ruth Emry , Robert **Goldstein**, Evan Franseen (2006) Part 1: Controls on Architecture of Argentine Limestone and Associated Strata in Northeastern Kansas: Kansas Bureau of Materials and Research, K-TRAN: KU-03-2 p. 1-59, <http://www.ksdot.org/burmatres/kdotlib2.asp>
- Julienne Ruth Emry , Robert **Goldstein**, Evan Franseen (2006) Part 2: A First Cut Method for Evaluating Limestone Aggregate Durability Using Spectral Scintillometry Report and CD-ROM: Kansas Bureau of Materials and Research, K-TRAN: KU-03-2, p. 60-250, <http://www.ksdot.org/burmatres/kdotlib2.asp>
- James C. Adamski, Jennifer A. Roberts, and Robert H. **Goldstein**, 2006, Entrapment of Bacteria in Fluid Inclusions in Laboratory-Grown Halite: *Astrobiology*, V. 6, No. 4, p. 552-562
- Csoma, Anita E, **Goldstein**, Robert H. Pomar, L., 2006, Pleistocene speleothems of Mallorca: implications for palaeoclimate and carbonate diagenesis in mixing zones: *Sedimentology*, v. 53, p. 213-236
- Johnson, C.L., Franseen, E.K., and **Goldstein**, R.H., 2005, The Effects of Relative Sea Level and Paleotopography on Lithofacies Distribution and Geometries in Heterozoan Carbonates, Southeastern Spain: *Sedimentology*, v. 52, p. 513-536
- Hiemstra, Erik, J. and **Goldstein**, R.H. (2005) The diagenesis and fluid migration history of the Indian Basin Field, Eddy County, New Mexico: WTGS Publication 05-115 "Unconventional Reservoirs, Technologies, and Strategies, New Perspectives for the Permian Basin" Peter Lufholm and Denise Cox, eds., p. 197-206
- Dubois, M.K. and **Goldstein**, R.H., (minor) 2005, Accommodation model for Wolfcamp (Permian) redbeds at the updip margin of North America's largest onshore gas field: Kansas Geological Survey, Open-file Report 2005-24; <http://www.kgs.u.edu/PRS/AAPG2005/2005-25/idex.html>.
- Goldstein**, Robert H., (minor) 2005, Positive Changes in Representing Your Teaching, *Teaching matters* v. 9, no. 2, p.4-5
- Buijs, Govert J.A., **Goldstein**, Robert H., Hasiotis Stephen T. and Rogers, Jennifer Roberts (2004) Preservation of microborings as fluid inclusions. *The Canadian Mineralogist*, Vol. 42, pp. 1563-1581
- Csoma, Anita E., **Goldstein**, Robert H., Mindszenty, Andrea and Simone, Lucia (2004) Models for diagenetic salinity cycles and sea level along a long-lived unconformity, Monte Camposauro, Italy, *Journal of Sedimentary Research*, v. 74, 889-903
- Mckirahan, J., **Goldstein**, R.H., and Franseen, E.K., 2004, Evaluation of Some Geologic Factors Affecting the Quality of Limestone Construction Aggregate: in Henthorne, R., ed., Proceedings of the 55th Highway Geology Symposium, Kansas City, MO, p. 374-405.
- Franseen, E.K., and **Goldstein**, R.H., 2004, Build-and-Fill Sequences: Predictable Patterns of Creation and Destruction of Paleotopography in Small-Scale Sequences: Kansas Geological Survey Open-file Report 2004-16, <http://www.kgs.ku.edu/PRS/publication/2004/AAPG/Build-and-Fill/index.html>
- Enos, Paul, Franseen, Evan K., **Goldstein**, Robert H., González, Luis A. and Roberts, Jennifer A. (2004) Highlights of Discoveries in the Earth Sciences - Carbonates. *Geotimes* v. 49, p.27 - expanded article at http://www.agiweb.org/geotimes/current/high_carbonates.html
- Goldstein**, R.H., 2003, Fluid Inclusions: Encyclopedia of Sediments and Sedimentary Rocks (G. Middleton, ed.) Kluwer Press, p. 297-300

- Goldstein, R. H.**, 2003, Petrographic analysis of fluid inclusions: in Iain Samson, Alan Anderson, and Dan Marshall, eds., *Fluid Inclusions: Analysis and Interpretation*. Mineralogical Association of Canada Short Course 32, p. 9- 53.
- Newell, K. D., **Goldstein, R.H.**, and Burdick, C.J., 2003, Diagenesis and late-stage porosity development in Pennsylvanian Strawn Formation, Val Verde Basin, Texas: W. Ahr, P.M. Harris, W.A. Morgan, and I D. Somerville, eds., *Permo-Carboniferous Carbonate Platforms and Reefs*, SEPM Special Publication 78, AAPG Memoir 83, p. 333-350.
- McKirahan, J.R., and **Goldstein, R.H.**, and Franseen, E. K., 2003, Build-and-fill sequences: How subtle paleotopography affects 3-D heterogeneity of potential reservoir facies: W. Ahr, P.M. Harris, W.A. Morgan, and I D. Somerville, eds., *Permo-Carboniferous Carbonate Platforms and Reefs*, SEPM Special Publication 78, AAPG Memoir 83, p. 97-116.
- Carlson, R.C., **Goldstein, R.H.**, and Enos, Paul, 2003, Effects of Subaerial Exposure on Porosity Evolution in the Carboniferous Lisburne Group, Northeastern Brooks Range, Alaska: W. Ahr, P.M. Harris, W.A. Morgan, and I D. Somerville, eds., *Permo-Carboniferous Carbonate Platforms and Reefs*, SEPM Special Publication 78, AAPG Memoir 83, p. 269-290.
- Mallarino, G., **Goldstein, R.H.**, and Di Stefano, P., 2002, New Approach for quantifying water depth applied to the enigma of drowning of carbonate platforms: *Geology*, v. 30, p. 783-786.
- Benison, K.C., and **Goldstein, R.H.**, 2002, Recognizing acid lakes and groundwaters in the rock record: *Sedimentary Geology*, v. 151, p. 177-185
- Cornette, J. L, B. S. Lieberman, and R. H. **Goldstein**. 2002. Documenting a significant relationship between macroevolutionary origination rates and Phanerozoic pCO₂ levels. *Proceedings of the National Academy of Sciences, U.S.A.* 99:7832-7835
- Rossi, C., **Goldstein, R.H.**, Ceriani, A., and Marfil, R., 2002, Fluid inclusions record thermal and fluid evolution in reservoir sandstones, Khatatba Formation, Western Desert, Egypt: A case for fluid injection: *AAPG Bulletin*, v. 86, p. 1773-1799.
- Goldstein, R.H.** and Rossi, C., 2002, Recrystallization in Quartz Overgrowths: *Journal of Sedimentary Research*, v. 72, p. 432-440.
- Ceriani, A., Di Giulio, A., **Goldstein, R.H.**, and Rossi, C., 2002, Diagenesis associated with cooling during burial: An example from Lower Cretaceous reservoir sandstones (Sirt basin, Libya): *AAPG Bulletin*, v. 86, p. 1573-1591.
- Goldstein, R.H.**, 2001, Perspectives: Paleoenvironment, Clues from Fluid Inclusions, *Science*, v. 294, p. 1009-1010.
- Benison, K. and **Goldstein, R.H.**, 2001, Evaporites and siliciclastics of the Permian Nippewalla Group of Kansas: A case for deposition in saline lakes and saline pans: *Sedimentology*, v. 48, p. 165-188
- C. Rossi, R. Marfil, R.H. **Goldstein**, R. Salas, A. Permanyer, J.A. de la Peña, M.A. Caja, and M.I. Benito, 2001, Diagenetic and oil migration history of the Kimmeridgian Ascla Formation, Maestrat Basin, Spain, *Marine and Petroleum Geology* v.18 (3), p. 287-306
- Montgomery, P., Farr, M.R., Franseen, E.K., and **Goldstein, R.H.**, 2001, Constraining controls on carbonate sequences with high resolution chronostratigraphy: Upper Miocene, Cabo de Gata region, SE Spain: *Paleogeography, Paleoclimatology, Paleocology*, v. 2693, p. 1-35

- Goldstein**, R. H., 2001, Fluid inclusions in sedimentary and diagenetic systems, *Lithos*, v. 55, 159-193
- Franseen, E.K, **Goldstein**, R.H., and Esteban, Mateu, 2001, Miocene strata of southeastern Spain, sequence development, predictability and porosity distribution, AAPG Field Seminar Guidebook, 168 pp.
- Goldstein**, R.H., 2001 Biography of Paul Enos, Francis J. Pettijohn Medallist for Excellence in Sedimentology: *Journal of Sedimentary Research*, v. 71, p. 1033.
- Rossi, C., **Goldstein**, R.H., and Marfil, R. (2000) Pore fluid evolution and quartz diagenesis in the Khatatba Formation, Western Desert, Egypt: *Journal of Geochemical Exploration*, v. 69-70, p. 91-96
- Luczaj, J. A. and **Goldstein**, R.H. (2000), Diagenesis of the lower Permian Krider Member, southwest Kansas: fluid inclusion, U-Pb, and fission-track evidence for reflux dolomitization during latest Permian time: *Journal of Sedimentary Research*, v. 70, p. 762-773
- Rasbury, E. T., Meyers, W.J., Hanson, G.N., **Goldstein**, R.H., and Saller, A.H., (2000) Relationship of uranium to petrography of caliche paleosols with application to precisely dating the time of sedimentation: *Journal of Sedimentary Research*, p. 604-618.
- Goldstein**, R.H. and Reynolds, T.J (2000) Fluid inclusions in diagenetic minerals: in *Carbonate Diagenesis II: Dolomites and Fluid Inclusions* (ed. by P. A. Scholle and N. P. James) SEPM Photo CD # 23, 366-520.
- Goldstein**, R. H. (2000) Subaerial Exposure Fabrics: in *Carbonate Diagenesis I: Limestones* (ed. by P. A. Scholle and N. P. James) SEPM Photo CD #22, 169-198.
- Franseen, E. K., and **Goldstein**, R. H (2000) Miocene strata of the Mediterranean region: in, *Jurassic, Cretaceous and Tertiary Carbonates and Associated Rocks* (ed. by P. A. Scholle and N. P. James) SEPM Photo CD #19, 501-524
- Benison, K.C. and **Goldstein**, R.H., 2000, Sedimentology of ancient saline pans: An example from the Permian Opeche Shale, Williston basin, North Dakota, U.S.A.: *Journal of Sedimentary Research*, v. 70, p. 159-169
- Franseen, E.K, **Goldstein**, R.H., and Esteban, Mateu, 2000, Miocene strata of southeastern Spain, sequence development, predictability and porosity distribution, AAPG Field Seminar Guidebook, 159 pp.
- McKirahan, J., **Goldstein**, R.H., and Franseen, E.K. (2000) Sequence Stratigraphy of the Lane-Island Creek Shales and the Farley Limestone in Northeastern Kansas and Geologic Factors Affecting the Quality of Limestone Aggregates. K-tran Report # K-TRAN: KU-97-1, Kansas Department of Transportation, 236 pp
- Benison, K.C. and **Goldstein**, R.H., 2000, Sedimentology of ancient saline pans: An example from the Permian Opeche Shale, Williston basin, North Dakota, U.S.A.: *Journal of Sedimentary Research*, v. 70, p. 159-169
- Newell, K.D., and **Goldstein**, R.H., 1999, Evidence from fluid inclusions on depths, timing, and environments of dolomitization in Ordovician Viola Formation, Kansas, USA; in *Proceedings of the Fifteenth Biennial European Conference on Research on Fluid Inclusions*, Potsdam, Germany: *Terra Nostra* 99 (GeoForschungsZentrum Potsdam), v. 6 , p. 214-216

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VISITING SCIENTISTS - (Short- and long-term)

- Anders Ahlberg - Lund University - Fluid inclusion study of quartz cementation in Jurassic Sandstone, Southern Sweden
- William J. Meyers - SUNY - Stony Brook- Fluid inclusion study of Pleistocene speleothems, Mallorca
- Bruce Ward - SUNY - Stony Brook- Fluid inclusion study of Devonian marine cements
- Trixie Packmohr - SUNY - Stony Brook - Fluid inclusion study of Miocene dolomite, SE Spain
- Heather Macdonald - William and Mary College - General instruction in fluid inclusion and sequence stratigraphy research
- T.C. Onstott - Princeton University - Fluid inclusions in Triassic Basins
- Irene Gomez - University of Wisconsin - Fluid inclusions in Pennsylvanian rocks of the Midcontinent and Cretaceous rocks of Spain
- Mai Bixian - Institute of Geochemistry, Chinese Academy of Sciences, Wushan, Guangzhou, Peoples Republic of China - Fluid Inclusions in Diagenetic Minerals
- Anita Csoma - University of Budapest - Hungary - Fluid inclusions in Cretaceous reservoir rocks
- Andrea Ceriani – University of Pavia – Italy – Fluid inclusions in Cretaceous sandstone, Libya
- Carlos Rossi – University of Madrid – Spain – Fluid inclusions and diagenesis of strata from North Africa
- Gianni Mallarino - University of Palermo - Italy - Diagenesis of Neptunian Dike Fills from Jurassic Limestones, Sicily
- Joe Whelan -USGS, Advice on Yucca Mountain Cement Stratigraphy
- Lynn Soreghan - University of Oklahoma, Advice on Fluid Inclusions in Permian Dolomite
- Nick Wilson - UNLV and DOE, Advise on Yucca Mountain Cement Stratigraphy
- Mirek Slovakiewicz - Univ. of Warsaw, Fluid inclusion study of Travertine Calcite
- Gianni Mallarino - University of Palermo, Italy - Jurassic drowning unconformities, quantification of tectonically driven uplift and subsidence rates
- Lawrence Mutti - Juniata College - P-T conditions of faulting in low-grade metamorphic rocks of the Pennsylvania Appalachian mountains
- Kathryn Hartig - University of Oklahoma - Conditions of dolomite formation and recrystallization in Permian rocks of New Mexico
- Maria Ochoa - Complutense de Madrid - Diagenesis and Metamorphism Cretaceous strata in Spain
- Laura Gonzalez - Complutense de Madrid - Hydrothermal Sandstone Diagenesis
- Maria Torres - University of Puerto Rico – Mayaguez - North Puerto Rican Dolomite
- Noelle van Ee – University of Miami – Diagenetic study of Glovers Reef cores, Belize

Wou Yu – Fluid inclusion analysis of Tarim basin

PROFESSIONAL AND SOCIETY FIELD TRIPS

Field seminar in Spain for BHPBilliton

Led week-long field trip for BHPBilliton to West Texas and New Mexico

Yearly, lead week-long AAPG field seminar to Spain; Porosity Evolution in Carbonate Reservoirs

Led week-long field seminar to Spain for Norsk-Hydro

Led 2-day field trip for Indian Basin Geologic Associates - to Southern New Mexico

Led field trip to SE Spain for University of Barcelona, Spain, Museum National D'Histoire Naturelle, France, and Royal Holloway University of London, England – co-led with Evan Franseen

Led field trip to SE Spain for Carbonates International – co-led with Evan Franseen and Mateu Esteban

Led field trip to SE Spain for Geoprep - co-led with Evan Franseen

Led field trip to SE Spain for Conoco - co-led with Evan Franseen

Led field trip to southeastern Spain, GEOPREP - co-led with Evan Franseen and Mateu Esteban

Led field trip to Sacramento and Guadalupe Mountains for British Petroleum - co-led with Evan Franseen

Led yearly field trip to Sacramento and Guadalupe Mountains for AAPG - co-led with Peter Scholle

Led field trip to Las Negras area, SE Spain in conjunction with SEPM/IAS Research conference on Carbonate Stratigraphic Sequences - co-led with Evan Franseen

Led field trip to Sacramento Mountains for a few faculty and students from SUNY Stony Brook to investigate late Paleozoic paleosols

CONSULTING TO FUND STUDENTS

BP - Randy Carlson

Exxon - Jeff Johnson

Arco - Jeff Johnson

INVITED SCHOLARLY PRESENTATIONS/SHORT COURSES/WORKSHOPS

Short course on Fluid Inclusions for ConocoPhillips

Controls on Carbonate Diagenesis: Oklahoma State University

Diagenetic Controls on Character of Carbonate Reservoirs: Surfaces and Setting: FC2 Annual Meeting

Stratigraphy and Reservoir-Analog Modeling of Miocene Deep-water Carbonate Deposits: Agua Amarga Basin, Southeast Spain: ConocoPhillips Lunch and Learn

The fundamental processes involved in reactive transport are insufficiently constrained to be able to simulate reactive transport: Panel member, FC2 annual meeting 2011

Carbonate reservoirs are too variable to quantify range of diagenetic and sedimentologic body geometries: Panel member, FC2 annual meeting 2011

Diagenetic Controls on porosity and permeability in Upper Miocene Carbonates, La Molata SE Spain (presented by Zhaoqi Li) FC2 annual meeting 2011

Stratigraphic Horizon and Rock Property Modeling, La Molata Outcrop Study Area, Las Negras, Spain (poster presented by Greg Benson) FC2 annual meeting 2011

Developments in La Molata Diagenesis, SE Spain, (poster presented by Zhaoqi Li) FC2 annual meeting 2011

Co-instructor – Miocene reservoir analogs to SE Asia in Spain, BHP Billiton

Instructor – Systematics of fluid inclusions in diagenetic minerals, ConocoPhillips

What's new in carbonate diagenesis: What we thought we knew and where we're going - Talk, Kansas Geological Society

Advanced Geothermometry: Complutense de Madrid, May-June 2010

From Mountain Belt to Midcontinent – Talk, Tulsa Geological Society

Carbonate research at the University of Kansas, talk at BHP Billiton

Talk on hydrothermal porosity evolution, ExxonMobil

Advanced Fluid Inclusion Geochemistry: Complutense de Madrid, June 2009

Indian Basin Field Hydrothermally Modified Reservoir Core Workshop – Tulsa Geological Society

Fluid Inclusion Geochemistry: Complutense de Madrid, May 2008

Miocene-Pliocene, Photozoan and Heterozoan Carbonate Complexes in SE Spain: Ongoing and Future Research", Shell Oil Company, Houston Texas. (half day of presentations)

Co-instructor for AAPG Education Program: "Controls on Porosity Types and Distribution in Carbonate Reservoirs", Almeria, Spain, May 18-23, 2008 (five day field seminar)

Co-instructor for Miocene Reservoir Analogs in the Field", StatoilHydro, Almeria, Spain, May 13-15, 2008 (three day field seminar)

Co-instructor for Miocene Reservoir Analogs in the Field", SaudiAramco, Almeria, Spain, May 24-26, 2008 (two day field seminar)

Changing paradigms in Carbonate Diagenesis, Shell Oil Company, The Hague (one day of presentations)

New Developments in microbial controls on carbonate diagenesis, Shell Oil Company, The Hague (one day of presentations)

Systematics of fluid inclusions in diagenetic and low-grade metamorphic systems, Complutense de Madrid (four day short course)

Research directions of the University of Kansas Department of Geology and its diversity initiative with UPRM, ExxonMobil, Houston (one day of presentations)

Research directions on microbial controls on carbonate diagenesis, Shell Oil Company, Houston, (half day of presentations)

Grant writing workshop - Geological Society of America National Convention

Short course on Diagenesis and Fluid Inclusions (University of Puerto Rico)

Systematics of Fluid Inclusions, taught to national and international visitors in association with PACROFI meeting

3-day short course - University of Heidelberg - Application of fluid inclusions to petroleum geology and tectonics

2-day short course - Geological Society of Canada - Mineralogical Society of Canada - Fluid Inclusions in Geologic Systems

NSF Workshop on Paleoclimate in Deep Geologic Time

5-day short course, Norsk Hydro, Bergen, Norway Systematics of fluid inclusions in sedimentary rocks

Taught three-day short course to 30 faculty and students at the University of Pavia, Italy on Fluid inclusions in diagenetic and low-grade metamorphic systems.

Taught one-day short course to 20 professionals at the AGIP oil company research lab on Use of fluid inclusions in the petroleum industry

Advisor on USGS Yucca Mountain Project Research

Advisor on DOE Yucca Mountain Project Research

Associate Editor - Journal of Sedimentary Research

Taught an invited short course on Carbonate Diagenesis and Fluid Inclusions at the Oetvos Lorand University of Budapest.

Taught a short course on Fluid Inclusion Applications to Diagenesis and Low-Grade Metamorphism for the University of Heidelberg, Germany

Invited presentation for fluid-rock symposium in Heidelberg. Importance of Reflux in Diagenesis

Advisory board for the SEPM Research conference on fluid flow and carbonates.

Outside member of PhD committee, 1998, SUNY Stony Brook

NSF panel member

Co-editor - SEPM Special Publication - Numerical Experiments in Stratigraphy

Session chair for 1998 SEPM Research conference on fluid flow and carbonates

Session Chair 1998 IAS convention

Session Chair 1998 AAPG annual convention

Co-convener International Symposium on Numerical Experiments in Stratigraphy

Geology Program Assessment Board - Juniata College

Organizing Board - International Symposium on Sedimentary Modeling

Invited to present paper, Conference on Sequence Stratigraphy of Forced Regression, London

Invited to present paper, Colloquium R.C.M.N.S. Miocene Reefs and Carbonate Platforms of the Mediterranean

Presented Short Course, Systematics of Fluid Inclusions in Diagenetic Minerals, SEPM, 1994

Invited to contribute slides to SEPM carbonate slide set

Invited to be advisor for Pangea Project

Invited to attend and present paper at AAPG Research Conference on Unconformities and Porosity Development in Carbonate Strata: Recognition, Controls and Predictive Strategies.

Invited to submit paper for AAPG Memoir on carbonate sequence stratigraphy

Invited to present paper at International AAPG meeting

Selected to be Guest Associate Editor for special issue of *Geochimica et Cosmochimica Acta* dealing with fluid inclusion geochemistry

Selected as Leader of Diagenesis Working Group - SEPM/IAS Research Conference on Carbonate Stratigraphic Sequences: Sequence Boundaries and Associated Facies, 1992, Conducted working group discussion session and presented report

Invited to attend SEPM/IAS Research Conference on Carbonate Stratigraphic Sequences: Sequence Boundaries and Associated Facies, 1992, Expenses and conference fees were paid by SEPM/IAS

Invited Session Chairman - Pan-American Conference on Research on Fluid Inclusions, 1992

Invited speaker and invited paper- Symposium on microfabrics in carbonate rocks, 1990

Invited to present short course on Systematics of Fluid Inclusions in Diagenetic Minerals - The University of Manchester, England, 1990

Invited presenter and invited paper - Symposium on Sedimentary Modeling, Kansas Geological Survey, 1989

Invited lecture, featured speaker - SEPM Carbonate Research Group - fluid inclusion geochemistry

Invited presenter - Pan American Current Research on Fluid Inclusions, 1987

Invited participant, Invited speaker - SEPM Research Conference on Fluid Inclusions in Sedimentary Rocks, 1984

Invited participant - International Waulsortian Symposium, 1982

UNIVERSITY-INVITED PRESENTATIONS

Lecture - Surface and Setting Controls on Carbonate Diagenesis: Oklahoma State University

Lecture - University of Oklahoma - New Applications of Fluid Inclusions

Lecture - University of Madrid (Complutense) - Importance of Reflux processes in diagenesis

Lecture - Indiana University - Importance of reflux in diagenesis

Lecture - Indiana University - Fluids trapped near Earth's surface

Seminar - University of Nevada -Las Vegas - Fabrics and fluids of two-phase systems

Lecture - University of Missouri - Importance of reflux in diagenetic systems

Lecture - University of Oklahoma - Importance of reflux in diagenetic systems

Lecture - Wichita State University - Preservation of Near-surface Fluids in Diagenetic Minerals

Lecture - Williston Club, University of Kansas - Preservation of Near-surface Fluids in Diagenetic Minerals

Lecture - Kansas State University - Preservation of Near-surface Fluids in Diagenetic Minerals

Lecture - University of Nebraska - Preservation of Near-surface Fluids in Diagenetic Minerals

Lecture - University of Texas - Austin - Fluid Inclusions in Diagenetic Minerals

Lecture - University of Tulsa - Fluid inclusions elucidate origin of dolomite; three case studies

Lecture - SUNY - Stony Brook - Cement Stratigraphy of Pennsylvanian Holder Formation, New Mexico

Lecture - SUNY - Stony Brook - Systematics of Fluid Inclusions in Sedimentary Rocks

Lecture - University of Missouri - Cement Stratigraphy of Pennsylvanian Holder Formation, New Mexico

Lecture - University of Missouri - Systematics of Fluid Inclusions in Sedimentary Rocks

Short Course - University of Wisconsin - Systematics of Fluid Inclusions in Sedimentary Rocks

Lecture - University of Wisconsin - Systematics of Fluid Inclusions in Sedimentary Rocks

Lecture - Kansas State University - Origin of Pennsylvanian Paleosols, New Mexico

INDUSTRY-GOVERNMENT INVITED PRESENTATIONS

Diagenetic Controls on Character of Carbonate Reservoirs: Surfaces and Setting: FC2 Annual Meeting

Stratigraphy and Reservoir-Analog Modeling of Miocene Deep-water Carbonate Deposits: Agua Amarga Basin, Southeast Spain: ConocoPhillips Lunch and Learn

The fundamental processes involved in reactive transport are insufficiently constrained to be able to simulate reactive transport: Panel member, FC2 annual meeting 2011

Carbonate reservoirs are too variable to quantify range of diagenetic and sedimentologic body geometries: Panel member, FC2 annual meeting 2011

Diagenetic Controls on porosity and permeability in Upper Miocene Carbonates, La Molata SE Spain (presented by Zhaoqi Li) FC2 annual meeting 2011

Stratigraphic Horizon and Rock Property Modeling, La Molata Outcrop Study Area, Las Negras, Spain (poster presented by Greg Benson) FC2 annual meeting 2011

Developments in La Molata Diagenesis, SE Spain, (poster presented by Zhaoqi Li) FC2 annual meeting 2011

Lecture – Goldstein, R.H., Dvoretzky, R.A., and Franseen, E.K., 2010, Deepwater carbonate reservoir analogs, ExxonMobil Fundamental Controls on Fluid Flow in Carbonates annual conference, Austria

Lecture – Li, Zhaoqi, Goldstein, R.H., and Franseen, E.K., 2010, Mixing of Freshwater and Evaporated Seawater: A Control on Porosity Distribution in Upper Miocene Carbonates of Southeast Spain, ExxonMobil Fundamental Controls on Fluid Flow in Carbonates annual conference, Austria

Poster – Knoph, K, Franseen, E.K., Tsoflias, G., Goldstein, R., 2010, Three dimensional imaging of oolite-microbialite facies using GPR, ExxonMobil Fundamental Controls on Fluid Flow in Carbonates annual conference, Austria

Poster – Knoph, K, Franseen, E.K., Tsoflias, G., Goldstein, R., 2010, Three dimensional imaging of oolite-microbialite facies using GPR, AAPG Rocky Mountain Rendezvous (best poster award)

Lecture - Franseen, E.K., and Goldstein, R.H., 2010, Three-dimensional Models for Porosity and Permeability Distribution in Shallow-water Carbonates of the Terminal Carbonate Complex, SE Spain, ExxonMobil Fundamental Controls on Fluid Flow in Carbonates annual conference, Austria

Lecture - Univ. and Industry, Bergen Norway - Porosity enhancement in proximal foreland basin tectonic settings. Workshop on Hydrothermal Porosity Enhancement

Lecture - Univ. and Industry, Bergen Norway Porosity evolution in distal foreland basin tectonic settings. Workshop on Hydrothermal Porosity Enhancement

Lecture - Univ. and Industry, Bergen Norway Porosity evolution in rift settings of North Africa. Workshop on Hydrothermal Porosity Enhancement

Lecture - Univ. and Industry, Bergen Norway - Hydrothermal porosity enhancement, Lisburne Group, ANWR, Alaska. Workshop on Hydrothermal Porosity Enhancement

Lecture - Conoco - Strawn Reservoir Diagenesis

Lecture - Conoco - Methodologies for study of Reservoir Diagenesis

Panel Member - Amoco - What's New In Carbonates

Lecture - Kansas Geological Survey - Fluid Inclusions in Kansas

Lecture - U. S. Geological Survey Workshop on Fluid Inclusions - Fluid inclusion constraints on the origin of dolomite in diagenetic systems

Lecture - Texaco Research - Fluid inclusions elucidate origin of dolomite, three case studies

Lecture - Texaco Research - Diagenesis and Sequence stratigraphy of Miocene rocks, SE Spain

Lecture - Exxon Production Research - Fluid inclusions elucidate origin of dolomite, three case studies

Lecture - Exxon Production Research - Diagenesis and Sequence stratigraphy of Miocene rocks, SE Spain

Lecture - Amoco Production Research - New techniques of geothermometry using fluid inclusions

Short Course - Amoco Production Research - Systematics of fluid inclusions in diagenetic minerals

Short Course - Chevron Oil Field Research - The recognition and interpretation of paleosols in Pennsylvanian limestones

Short Course - Chevron Oil Field Research - Systematics of fluid inclusions in diagenetic mineral

PUBLIC PRESENTATIONS

Lecture - Importance of Reflux in diagenesis, West Texas Geological Society

Lecture - Importance of Reflux in diagenesis, Kansas Geological Society

Lecture - Lawrence Gem and Mineral Club - Fluorescence and Luminescence Techniques

Lecture - Kansas Geological Society - Diagenetic controls of heterogeneity of Pennsylvanian carbonate reservoirs

EXTERNAL FUNDING

BhpBilliton – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000 – Awarded

ConocoPhillips – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000 – Awarded

Devon – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000 – Awarded

Shell – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000 – Awarded

Repsol – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000 – Awarded

Chevron – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000 – Awarded

Pioneer – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000

Chesapeake – PI with Franseen and Rankey – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$135,000

- HighMount** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000
- Saudi Aramco** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000
- Gazpromneft** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000
- Statoil** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000
- Sandridge** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2012-2013, \$45,000
- Schlumberger** – PI with Franseen and Rankey - Petrel License for geologic characterization of carbonate systems. (\$625,426 in software)
- IHP-BECIP** - PI with Franseen and Rankey - Dionisos license for geologic modeling of sedimentary systems. (\$860,000 in software)
- ExxonMobil** – CoPI with Jyun-Syung Tsau, Jenn-Tai Liang Jung, and Evan Franseen – Reservoir Simulation Models of La Molata (\$65,000)
- BhpBilliton** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012, \$45,000 – Awarded
- ConocoPhillips** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012 \$45,000 – Awarded
- Devon** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012 \$45,000 – Awarded
- Shell** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012 \$45,000 – Awarded
- Repsol** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012 \$45,000 – Awarded
- Chevron** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012 \$45,000 – Awarded
- Pioneer** – PI with Franseen and Rankey and many co-PIs – Kansas Interdisciplinary Carbonates Consortium. 2011-2012 \$45,000 – pending contract finalization
- Chesapeake** – PI with Franseen and Rankey – Kansas Interdisciplinary Carbonates Consortium., \$135,000
- BHPBillion** – PI with Franseen and Rankey – Kansas Interdisciplinary Carbonates Consortium., \$45,000
- ConocoPhillips** – PI with Franseen and Rankey – Kansas Interdisciplinary Carbonates Consortium, \$45,000
- Devon** – PI with Franseen and Rankey – Kansas Interdisciplinary Carbonates Consortium, \$45,000
- DOE** – CoPI with multiple investigators - Modeling CO₂ Sequestration in Saline Aquifer and Depleted Oil Reservoir to Evaluate Regional CO₂ Sequestration Potential of OzarkPlateau Aquifer System, South-Central Kansas. Focus on the Paleozoic-age Ozark Plateau Aquifer System in south-central Kansas. The project will integrate seismic, geologic, and engineering approaches to evaluate

miscible CO₂-EOR and tertiary oil recovery potential in the Mississippian oil reservoir and CO₂ storage potential in the underlying Arbuckle Group saline formation. (DOE share: \$4,974,352; Recipient share: \$1,251,422) Begins Dec. 2009; Duration: 36 months

Schlumberger – PI with Franseen and Rankey - Petrel License for geologic characterization of carbonate systems. (\$625,426 in software) Begins September 2009

ExxonMobil – CoPI with Evan Franseen - Unrestricted grant for Fluid Flow in Carbonate Systems (ExxonMobil, \$5000)

ExxonMobil – Co-PI with González - \$65K/year (\$50K to UPRM and \$15K to KU) Diversity initiative with University of Puerto Rico -Mayaguez (no expiration date)

Chesapeake – PI - \$100K over four years – Research on unconventional gas reservoirs – Fayetteville Shale in Arkansas

ExxonMobil – PI - Diagenetic Controls on Porosity and Permeability in Miocene Carbonates, La Molata, Spain, ExxonMobil, \$255,000 (awarded in 2008)

Hess - Stratigraphic and Hydrocarbon Reservoir-analog Character for Uppermost Miocene Carbonate Systems, Ricardillo and La Molata, SE Spain Hess Oil Company, \$25,000 (awarded in 2008)

Exxon Mobil - CoPI with Franseen - \$9.5K Deepwater Carbonate reservoir modeling (approved in 2005 with funding arriving in 2006, no expiration date)

Saudi-Aramco - CoPI with Franseen - \$9.5K Deepwater Carbonate reservoir modeling (approved in 2006, no expiration date)

Shell - Co- PI with Roberts and Gonzalez - \$415K Microbial controls on dolomite formation (approved in 2005 with funding arriving in 2006, expires 2009)

Keck Foundation - Co-PI with González - \$450K - KPESL: Paleoenvironmental and Environmental Stable Isotope Laboratory

K-TRAN - \$39K, Implementation of “first cut” evaluation of aggregate durability using clay content as indicated by spectral gamma ray logging of limestone aggregate. Goldstein is PI (Sept 2002-Sept 2004)

ACS-PRF - \$60,000, Climate and other controls on diagenesis of cyclic carbonates (Sept. 2000- Sept 2004)

National Science Foundation - Epscor program - \$200,000, co-PI with many other co-Pis, Acquisition of a Field Emission Scanning Electron Microscope (Funding begins Feb. 2001)

Marathon, Kerr/McGee, Chevron - \$70,000, Diagenesis and fluid migration in the Indian Basin Field (Sept. 2000- Sept 2003)

Conoco/Dupont – 1998-2002 - co-PI with Franseen - \$10,000 A New Approach for Evaluating Controls on Depositional Sequence Architecture

Conoco/Dupont – 1997-2002 - co-PI with Franseen - \$15,000 A New Approach for Evaluating Controls on Depositional Sequence Architecture

Texaco EPTD - 1996 - \$1,765 - co-PI with K.D. Newell, Microthermometric Analyses of Fluid Inclusions to Document Changes in Gas Compositions for Comparison to Raman Spectroscopy

Texaco EPTD - 1996 - \$1,000 - co-PI with K.D. Newell, Microthermometric Analyses of Fluid Inclusions to Document Thermal History

- CONOCO** - 1996 \$46,500 - co-PI with K.D. Newell, Diagenesis of Strawn Reservoirs, Val Verde Basin
- Conoco/Dupont** – 1996-2002 - co-PI with Franseen - \$10,000 A New Approach for Evaluating Controls on Depositional Sequence Architecture
- National Science Foundation** - 1996-2001 - co-PI with Franseen (PI) and Farr - \$138,000 - A New Approach for Evaluating Controls on Depositional Sequence Architecture
- Department of Transportation** - 1996 - 1998 with Franseen - \$32,000 - Predicting the distribution of Class-1 aggregate from geologic and rock properties
- Exxon** Production Research Grant - 1995 - \$6,000 (\$1,000 in field expenses and \$5,000 in analytical services) Fluid migration history of an exhumed petroleum reservoir, El Abra Limestone (mid-Cretaceous), Sierra del Abra, NE Mexico
- Exxon** Production Research Grant - 1995 - co-PI with Gene Rankey - \$5,000 Sequence stratigraphy within a chronostratigraphic framework within the Pennsylvanian-Permian boundary interval
- National Science Foundation** Equipment Grant - 1994-1996 - co-PI with Plank (PI), Macpherson (PI), Van Schmus, Walker, and McKenna - \$175,000 Acquisition of an Inductively Coupled Plasma- Mass Spectrometer for Geochemical Research at the University of Kansas
- Exxon** Production Research Grant - 1994 - PI - with E.K. Franseen - \$5,000 Sequence stratigraphy of Miocene rocks of the Mediterranean region
- Texaco** Oil Company Research Grant - 1994 - PI - with E.K. Franseen - \$5,000 Sequence stratigraphy of Miocene rocks of the Mediterranean region
- National Science Foundation** Grant - 1993-1995 - PI - \$76,097 - A new approach to study dolomitization emphasizing fluid inclusions.
- Department of Energy EPSCoR Traineeships** - 1992-1994 - co-PI - with T.R. Carr, L.W. Watney, and E.K. Franseen - \$30,000
- Amoco** Research Grant - 1990-1991 - PI - with E.K. Franseen - \$4,000 (in analyses) - Diagenesis of the Miocene strata of SE Spain
- Exxon** Production Research Grant - 1990-1994 - PI - with E.K. Franseen - \$15,000 for three years, Diagenesis of Miocene strata of SE Spain
- Texaco** Oil Company Research Grant - 1990-1992 - PI - with E.K. Franseen - \$5,000 per year for two years to total \$10,000, Diagenesis of Miocene strata of SE Spain
- British Petroleum** Oil Company Research Grant - 1990-1992 - PI -with E.K. Franseen - \$5,000 per year for two years to total \$10,000, Diagenesis of Miocene strata of SE Spain
- KU General Research Fund** Grant - 1990-1991 - PI - \$3,600 - A new approach to determine changes in sea water composition through time
- KU General Research Fund** Grant - 1988 - PI - \$5,000 - A new method to determine the composition of ancient atmosphere

Department of Energy Grant - 1989-1992 - Co-PI - with Keith Watts, Bernard Mamet, Anita Harris - \$80,000 to KU + \$13,000 helicopter support (unsolicited by DOE) -
The Pennsylvanian Wahoo Limestone of northeastern Alaska - Analog of the Lisburne Field, analysis of reservoir heterogeneities due to shallowing-upward cycles in carbonate rocks

Chevron USA Grant - 1988 - PI - \$4,500 - Fluid inclusions in dolomite

National Science Foundation Grant - 1988-1990 - Co-PI - with A.W. Walton - \$95,000 - Diagenesis of sandstones and limestones in the foreland shelf of Kansas

Fluid Inc. Research Contract - 1987 - PI - \$600 - Study of vadose zone cements associated with ore deposits

EQUIPMENT DONATION

OXY-Cites Service Oil - several microscopes, storage cabinets, and drilling equipment donated, \$11,940.

Amoco Research - Rigaku X-ray Fluorescence Spectrophotometer

Ph.D. STUDENTS SUPERVISED

Kenneth Hood (finished)
Randall Carlson (finished)
Jeffery Johnson (finished)
Kathleen Counter Benison (finished)
Eugene Rankey (finished)
Kevin Evans (finished)
Heather Wood (changed areas)
Govert Buijs (finished)
Anita Csoma (finished)
Martin Dubois (finished)
Qi Lianshuang (finished)
Marcello Minzoni (finished)
Zhaoqi Li (active)

MS STUDENTS SUPERVISED

James Anderson (finished)
Mark Bowman (finished)
Susan Hoff (changed areas)
Jay Lebeau (finished)
Susan Stover (finished)
Tracey Whitesell (finished)
Sean Brennan (finished)
John Luczaj (finished)
Bryan Bergmann (finished)
Jason McKirahan (finished)
Niall Toomey (finished)
Chris Johnson (finished)
Erik Heimstra (finished)
Matt Ritter (finished)
Juli Emry (finished)
Peter Dillett (finished)
Jessica Poteet (finished)

Christopher Lipinski (finished)
Rachel Dvoretzky (finished)
Justin Fairchild (active)
Anya Hess (active)
Nicholas Welsh (active)
Alicia Rosales (active)
Erin Young (finished)
Lindsay Walters (active)
Rafferty Sweeney (co-chair, active)
Kate Knoph (co-chair, active)
Brad King (active)
Karen Ohmes Lechtenberg (co-chair, active)

DEPARTMENT OF GEOLOGY SERVICE

G-Hawker editor and publisher – 2009-2010
Study abroad advisor – 2009-2010
GAAB Student-Alumni Relations Committee
Technician Search Committee
General Advising
Chair of Department 2004- 2009
Associate Chair of Department 1999-2004
Mentor for Steve Hasiotis
Manager for rock prep technician
Graduate Studies Committee - 1985-1988, Chair, 1999
Chairmanship Search Committee - 1987
Admissions Committee (member and chair)
Supervisor for Technician
Graduate Student Entrance Advising - 1985-1990
Undergraduate Advising of Majors - 1985-1990
Microscope Laboratory - 1988-1990
SEM-EDS Negotiation - 1987
Field Camp Committee - 1987-1990
Core Storage Facility Planning Committee - 1989
Undergraduate Studies Committee - 1987-1998 - (Chairman 1988-1993)
Sigma Gamma Epsilon - Geological Honor Society - Faculty Advisor
Keck Foundation Mass Spectrometer Proposal
Geology Associates - Department Relations Committee
Undergraduate Assessment
Undergraduate Brochure
Associate Chairman
Acting Chairman
Instructional Spaces Committee (Chairman)
M.S. Thesis Evaluation Committee (Chairman)
Darkroom and Graphics Supervisor - 1995-2003
Sedimentary rock collection - 1995-2002
Image Analysis System
Admissions Committee
Paleontologist Search Committee
Paleomag laboratory
Manager for Graphics Technician
Stable Isotope lab manager search committee
Fluid inclusion lab

Graduate Student Entrance Advising
Sedimentary Geology Web Site Developer
GAAB Industry relations committee
SEM coordinator
Department Chair Search Committee, 1999, chair
Ritchie Chair Search Committee

UNIVERSITY AND COLLEGE SERVICE

FY10 Chancellor's Distinguished Teaching Award Committee
Reading Circle, An Immodest Proposal
Second year faculty seminar – Making effective use of class time
CTE Faculty Fellow
CLAS Panel – Moving into Department Leadership
Research Achievement Award Committee
Provost's Graduate Education Working Group
KUCR Board of Trustees
Chancellor Hemenway's task force on research recognition
Chancellor Gray-Little's task force on Research Engagement
Energy Research Council
Evaluating Teaching Task Force
Council of Distinguished Professors
Dean Joseph Steinmetz' executive advisory council
RGS Committee to evaluate the KGS and its Director
RGS Committee to evaluate the Biodiversity Institute and its Director
College Committee to evaluate Department of Molecular Biology
Chair Department of Geology
KUCR Board of Trustees
CTE Faculty Fellow
Chancellor's Club teaching award evaluation committee
UKANTeach steering committee
Molecular Biosciences Review
Center for Teaching Excellence Advisory Board (TEAM)
Center for Teaching Excellence committee on representing your teaching
Department Chair Mentor
Kansas Geological Survey Review
UKANTeach steering committee
Chancellor's 2015 task force, research and innovation
Biodiversity Institute and Director review committee
Molecular Biosciences Review
Research Rewards Task Force
Dean's executive advisory group
KU Energy Research Council
Steering Committee Council of Distinguished Professors
Center for Teaching Excellence Advisory Board (TEAM)
Center for Teaching Excellence committee on representing your teaching
Center for Teaching Excellence Ambassador
University Governance committee on assessment of teaching
SEM committee
Center for Teaching Excellence Annual Teaching Summit presentation for New Faculty
Biology Division Chair Search
Steering Committee Council of Distinguished Professors
Center for Teaching Excellence Lunch and Conversation on representing your teaching
Technical Producer Search Committee
Provost's panel on promotion and tenure for new faculty
University committee on promotion and tenure

KGS director review committee
Undergraduate Advising - 1985-pres
Standing Committee on New Degrees and Degree Program Changes - 1989-1990
Interdisciplinary Curriculum Committee in the Natural Sciences - 1989-1994
First Level Review Committee for University GRF Proposals - 1992
Search Committee of Associate Dean (1994)
Search Committee, Kansas Geological Survey (1994)
Graduation Marshall
Geography Department Chair Search Committee (1996)
College Chair Evaluation Committee (1996-1998, Chair, 1998)
Laser Safety Committee (Chair)
Teaching Ambassador
Committee on science teaching facility
Kemper Symposium
Member, Graduate Council
Technical Producer Search Committee
Provost's Panel for New Faculty
University Promotion and Tenure Committee

NATIONAL ORGANIZATION SERVICE

Organizing Committee Karst Waters Institute Conference
Chair, AAPG Academic Liaison Committee
Associate Editor - Journal of Sedimentary Research
Advisory board for the SEPM Research conference on fluid flow and carbonates.
Session chair for AAPG annual convention, multiple times
Session chair of SEPM Research conference on fluid flow and carbonates
SEPM Session Chair
SEPM Friendship Committee - 1996-pres
PACROFI Session Chair - 1996
Coordinator for Session Presentations, South-Central Geological Society of America Meeting - 1988
Session Chairman, South-Central Geological Society of America Meeting - 1988
University of Kansas, Sigma Gamma Epsilon Geological Honor Society, Faculty Advisor - 1987-1990
Co-organizer, Sigma Gamma Epsilon Geological Honor Society, 75th Anniversary Convention - 1990
Judge for Poster Session - Society of Economic Paleontologists and Mineralogists National Meeting
Society of Economic Paleontologists and Mineralogists Membership Committee
SEPM Campus Representative
University of Kansas, Sigma Gamma Epsilon Advisor
University of Wisconsin Geology Club President
Reviewer For:
Journal of Sedimentary Petrology; Journal of Sedimentary Research
Economic Geology
Geological Society of America Bulletin
Geology
American Chemical Society Petroleum Research Fund
Missouri Economic Development Grants Program
United States Geological Survey Gilbert Fellowship
National Science Foundation
President's National Science and Technology Council
SEPM Studies in Geology Series
GSA Special Paper
American Mineralogist
SEPM Short Course Volumes

SEPM Special Publications
Department of Energy
Palaios

INTERNATIONAL ORGANIZATION SERVICE

Reviewer For:

NERC - Canada Research Grant Proposals
NERC - UK Research Grant Proposals
Israel Science Foundation Grant Proposals
Geochimica et Cosmochimica Acta
Sedimentology
Israel Journal of Earth Sciences
Geological Society (UK) Special Publication
IAS Special Publication
Journal of the Geological Society

Session Chairman - Pan-American Conference on Research on Fluid Inclusions

Leader of Diagenesis Working Group - SEPM/IAS Research Conference on Carbonate Stratigraphic
Sequences: Sequence Boundaries and Associated Facies, 1992

Guest Associate Editor for special issue of Geochimica et Cosmochimica Acta dealing with fluid inclusion
geochemistry

Organizing board - International Symposium on Sedimentary Modeling

General Chair - Pan American Current Research in Fluid Inclusions

Hedberg Conference Organizing Committee