

# Charles Kerans

Professional Summary February 2019

The University of Texas at Austin  
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## Academic Background

B.S. Geology, St. Lawrence University, Canton, New York, 1977

Ph.D. Geology, Carleton University, Ottawa, Canada, 1982

Postdoctoral Senior Research Fellow, Western Australian Institute of Technology, 1982

## Areas of Expertise

- A. Carbonate sequence stratigraphy
- B. Carbonate reservoir characterization
- C. Pleistocene stratigraphy and sea-level reconstructions
- D. Paleokarst analysis, carbonate diagenesis.
- E. Seismic interpretation, seismic stratigraphy.

## Professional Work Experience

A. Present Position: Chair, Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, August 2016-present

B. Robert K. Goldhammer Chair of Carbonate Geology, Department of Geosciences, The University of Texas at Austin, 2005-present

C. Senior Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (September 1994 - 2005).

Principal investigator directing research for San Andres/Grayburg Reservoir Characterization Research Laboratory. Sequence-and parasequence-scale analysis of Permian, Cretaceous, and Pennsylvanian carbonates, Permian Basin, West Texas, New Mexico, South Texas, and the Persian Gulf.

D. Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (August 1990 -August 1994).

Principal investigator directing research for San Andres/Grayburg Reservoir Characterization Research Laboratory. Sequence-and parasequence-scale analysis of Permian, Cretaceous, and Pennsylvanian carbonates, Permian Basin, West Texas, New Mexico, South Texas, and the Persian Gulf.

E. Research Associate, Bureau of Economic Geology, The University of Texas at Austin (May 1985 July 1990).

Principal investigator directing research for San Andres/Grayburg Reservoir Characterization Research Laboratory. Sequence-and parasequence-scale analysis of Permian, Cretaceous, and Pennsylvanian carbonates, Permian Basin, West Texas, New Mexico, South Texas, and the Persian Gulf.

F. Postdoctoral Senior Research Fellow, Western Australian Mining and Petroleum Research Institute (September 1982 -April 1985).

Petrology of the Devonian and Carboniferous reef complexes of the Canning and Bonaparte Basins. Dr. P. E. Playford, supervisor.

G. Acting Associate Professor, University of Kansas (August 1981 -June 1982).

Teaching of undergraduate sedimentary petrology, graduate carbonate petrology and regional field geology.

### Professional Societies

American Association of Petroleum Geologists

Society of Sedimentary Geology (SEPM)

Permian Basin Section–SEPM (Society for Sedimentary Geology)

West Texas Geological Society

### Awards and Honorary Societies

SEPM Honorary Membership Award, 2017

SEPM Best Paper Award for 2015 for *Ted E. Playton and Charles Kerans, 2015, Late Devonian Carbonate Margins and Foreslopes of the Lennard Shelf, Canning Basin, Western Australia, Part A: Development During Backstepping and the Aggradation-To-Progradation Transition, Journal of Sedimentary Research Vol. 85 (2015), No. 11. (November), Pages 1334-1361 and part B.*

Jackson School of Geosciences Joseph C. Walter Jr. Excellence Award (outstanding service and special contributions to JSG) for 2014

SEPM Pettijohn Medal for Sedimentology for 2014

AAPG Grover E. Murray Memorial Distinguished Educator Award for 2013

West Texas Geological Society, 2012 Fall Symposium Best Paper Award

AAPG Gabriel Dengo Memorial Award, 2009, Best International Paper at AAPG International Convention, Capetown, South Africa, November, 2008

G. Moses and Carolyn G. Knebel Distinguished Teaching Award, 2008-9, for Graduate Teaching (Modern Carbonates of Turks and Caicos Grad Seminar)

SEPM Excellence of Poster Presentation Award, 2008: Beatriz Garcia-Fresca, Jerry Lucia and Charlie Kerans, *Numerical Model of Reflux Circulation during the Deposition of the Permian San Andres Formation, Guadalupe Mountains and Algerita Escarpment*

G. Moses and Carolyn G. Knebel Distinguished Teaching Award, 2007, for Graduate Teaching (GEO 383M Carbonate Petrology)

G. Moses and Carolyn G. Knebel Distinguished Teaching Award, 2006, for Undergraduate Teaching (GEO 416M Sed Rocks)

Grover E. Murray Best Published Paper Award for 2007 GCAGS Transactions (Waite et al (2007 listed above)  
Second Place, Gordon I. Atwater Best Poster Award, Gulf Coast Association of Geological Societies, 2004

Wallace E. Pratt Award for Best Original Article published in the AAPG Bulletin: Seismic frequency control on carbonate seismic stratigraphy: a case study of the Kingdom Abo Sequence, West Texas, 2003

Third Place, Gordon I. Atwater Best Poster Award, Gulf Coast Association of Geological Societies, 2002

Jackson Fellow, 2002

Grover E. Murray Award, 1st Place Best Published Paper Award, Styles of rudist buildup development along the northern margin of the Maverick Basin, Pecos River Canyon, Southwest Texas, 2002

Selected Best Papers, American Association of Petroleum Geologists for AAPG International talk presented at EAGE conference session in Florence, Italy, 2002

Honorary Life Member, Permian Basin Section, Society of Economic Paleontologists and Mineralogists, 2002

AAPG International Distinguished Lecturer, 2002

American Association of Petroleum Geologists International Distinguished Lecturer, 2000 -2001

Qualline Lectureship, The University of Texas at Austin, 1998 -1999

Best of 1996 AAPG Hedberg Reservoir Compartmentalization Conference (Woodlands, Texas), presented at Vienna International AAPG, 1996

AAPG Distinguished Lecturer, 1994 -1995

American Association of Petroleum Geologists Pratt Award for Best Paper in American Association of Petroleum Geologists Bulletin, 1994

West Texas Geological Society Distinguished Service Award, 1993 -1994

PBS-SEPM Noon Luncheon Program, Best Paper Award, 1992 -1993 Best Paper Award, Permian Basin Section, Society of Economic Paleontologists and Mineralogists Invited Lecture Series, 1992 -1993

Best Poster Award, West Texas Geological Society Annual Convention, 1992

Best Poster Award, Southwest American Association of Petroleum Geologists Annual Convention, 1992

American Association of Petroleum Geologists Distinguished Lecturer, 1990 -1991

Best Paper Award, Permian Basin Section, Society of Economic Paleontologists and Mineralogists Invited Lecture Series, 1987 -1988

Best of AAPG paper presented for Society of Petroleum Engineers, 1988

Western Australian Mining and Petroleum Research Institute Grant, Petrology of Subsurface Lennard Shelf Carbonates, Canning Basin, 1982 -1985

Epstein Scholarship, Carleton University, 1979 -1982

Graduated Cum Laude, St. Lawrence University, 1977

## Committee Responsibilities and Professional Activities

- Field trip leader, AAPG National Meeting, 2019
- Session convener, AAPG, 2019

- Field Trip Committee 2017 SEPM CSPG Mountjoy Research Conference, Austin, TX June, 2017
  - Field trip leader for 2017 SEPM CSPG Mountjoy Research Conference, Austin, TX June, 2017
  - UT Jackson School Masters Program Review Panel Chair, 2016
  - CoChair SEPM Research Conference, Oceanic Anoxic Events, Austin, TX November, 2016
  - AAPG ACE Houston 2017 Theme Chair Carbonates and Evaporites
  - Dolomieu Conference, Italy, 2016, Co-organizer and session chair
- 
- BEG Search Committee for Associate Director of Energy Programs
  - Session Chair 2013 SEPM Research Conference Session at Annual AAPG - *New Advances in Devonian Carbonates: Outcrop Analogs, Reservoirs, and Chronostratigraphy, with Ted Playton and John Weissenberger*
  - Session Chair 2012 SEPM Research Conference at Annual AAPG, Digital Geospatial Context for 3-D Source-to-Sink Models: New Insights into the Classic Shelf to Basin System of the Guadalupe and Delaware Mountains
  - Session Chair (with Steve Flint), Use of Outcrop Analogs in Reservoir Characterization and Modeling, American Association of Petroleum Geologists Annual Convention, Dallas, Texas, 2004 Co-Organizer, AAPG Hedberg Conference on Origin of Lower Paleozoic Fracture/Breccia Reservoirs, American Association of Petroleum Geologists, Hedberg, Germany, 2003
  - Presenter, ChevronTexaco Technology Conference, , 2003
  - Session Chair, Porosity Development within a Sequence Stratigraphic Framework in Carbonates, American Association of Petroleum Geologists Annual Convention, Salt Lake City, Utah, 2003
  - Session Chair (with Mitch Harris and A. S. Al Sharhan), New Approaches in Carbonate Reservoir Modeling, American Association of Petroleum Geologists International Convention, Cancun, Mexico, 2003
  - Member, Distinguished Lecture Committee, American Association of Petroleum Geologists, 1996-2000
  - Member, Development Geology Committee, Society of Petroleum Engineers, 1996-2000
  - Session Chairman, Reservoir Characterization Session, 3rd International DOE/SPE Reservoir Characterization Conference, Tulsa, U. S. Department of Energy, 1996 Co-chairman, "High-frequency eustatic cycles, control on depositional processes," technical session,
  - American Association of Petroleum Geologists Annual Meeting, American Association of Petroleum Geologists, 1995 Co-leader of field trip, "Sequence stratigraphy and reservoir geology of the San Andres Formation, Sacramento and Guadalupe Mountains," Permian Basin Section, SEPM (Society for Sedimentary Geology) Annual Meeting, Permian Basin Section–SEPM (Society for Sedimentary Geology), 1995
  - Leader of field trip, "Permian Reef Geology Trail, McKittrick Canyon, Guadalupe Mountains: facies, depositional models, and sequence stratigraphy," American Association of Petroleum Geologists Annual Meeting, American Association of Petroleum Geologists, 1995
  - Associate Editor, Journal of Sedimentary Petrology, Society of Economic Paleontologists and Mineralogists, 1989-1991 Co-chairman, "Climatic and biologic signals in sequence stratigraphy" (with John Armentrout), 1997 Annual Meeting, Dallas, Texas, American Association of Petroleum Geologists, 1983-1997

## Publications

### Reports, Monographs, Brochures, Pamphlets, Bulletins

- Kerans, Charles, and Fitchen, W. M., 1995, Sequence hierarchy and facies architecture of a carbonate-ramp system: San Andres Formation of Algerita Escarpment and western Guadalupe Mountains, West Texas and New Mexico: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 235, 86 p., 2 pl.
- Ruppel, S. C., Kerans, Charles, Major, R. P., and Holtz, M. H., 1995, Controls on reservoir heterogeneity in Permian shallow-water-platform carbonate reservoirs, Permian Basin: implications for improved recovery: The University of Texas at Austin, Bureau of Economic Geology Geological Circular 95-2, 30 p.
- Lucia, F. J., Kerans, Charles, and Vander Stoep, G. W., 1992, Characterization of a karsted, high-energy, ramp-margin carbonate reservoir: Taylor-Link West San Andres Unit, Pecos County, Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 208, 46 p.
- Tyler, Noel, Bebout, D. G., Garrett, C. M., Jr., Guevara, E. H., Hocott, C. R., Holtz, M. H., Hovorka, S. D., Kerans, Charles, Lucia, F. J., Major, R. P., and Ruppel, S. C., 1991, Integrated characterization of Permian Basin reservoirs, University Lands, West Texas: targeting the remaining resource for advanced oil recovery: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 203, 136 p.
- Kerans, Charles, 1990, Depositional systems and karst geology of the Ellenburger Group (Lower Ordovician), subsurface West Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 193, 63 p., 6 pl.
- Kerans, Charles, 1989, Karst-controlled reservoir heterogeneity and an example from the Ellenburger Group (Lower Ordovician) of West Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 186, 40 p.
- Kerans, Charles, 1985, Petrology of Devonian and Carboniferous carbonates of the Canning and Bonaparte Basins: Western Australian Mining and Petroleum Research Institute, Report No. 12, 384 p.
- Kerans, Charles, Ross, G. M., and Donaldson, J. A., 1980, Stratigraphy, sedimentation and tectonism in the Hornby Bay and Dismal Lakes Groups, Proterozoic, NWT: Department of Indian Northern Affairs, Open-File Report, 25 p.

### Guidebooks

- Kerans, C., Zahm, C., Harris, P. M., and Garcia-Fresca, in review, Digital Field Guide to the Guadalupe Mts., American Association of Petroleum Geologists Centennial Digital Field Guide, April 2017 release.
- Kerans, C., Zahm, C., and others, The Aptian Composite Sequence in Texas – Shoreline to Deep Shelf Profile of OAE 1A, BEG Reservoir Characterization Research Laboratory Annual Field Guide, 57 p.
- Kerans, Charles, Zahm, Chris, Hiebert, Sameul F., Parker, Alex, and Jones, Nathaniel, 2012, Advances in the Integrated Stratigraphic and Structural Model of the Guadalupian Mixed Clastic-Carbonate Strata, Guadalupe Mts., BEG Reservoir Characterization Research Laboratory Annual Field Guide, 111 p.
- Zahm, Chris, Kerans, Charles, El-Azzi, Joseph, and Eldam, Nabil, 2011, Evaporite paleokarst and brecciation within the Upper Mississippian Madison Group of Wyoming and Montana, 104p.
- Kerans, Charles, Playton, Ted E., and Janson, X., 2008, Carbonate Slope Styles: Examples from the Permian of the Guadalupe Mountains; Permian Basin Section SEPM, Guidebook 2008-1, 50 p.

(several not listed here)

- Lucia, Jerry, Kerans, Charlie, and Loucks, Robert, 2004, Collapse Breccia Field Trip: Ordovician El Paso and Montoya Groups, Southern Franklin Mountains, El Paso, Texas: The University of Texas at Austin, Bureau of Economic Geology Field Trip Guidebook for Hedberg Research Conference, unpaginated [21 p.].
- Kerans, Charles, Jennings, James, and Lucia, Jerry, 2004, Algerita Escarpment field trip: The University of Texas at Austin, Bureau of Economic Geology, Reservoir Characterization Research Laboratory Field Trip Guidebook for Hedberg Research Conference, variously paginated.

- Janson, Xavier, Kerans, Charles, and Bellian, Jerry, 2004, Carboniferous and Ordovician digital outcrop studies: The University of Texas at Austin, Bureau of Economic Geology, RCRL Laboratory Field Trip Guidebook, 86 p.
- Kerans, Charles, Lucia, Jerry, Bellian, Jerry, Loucks, Bob, and Playton, Ted, 2003, Cretaceous buildups and Paleokarst systems, Lake Medina area, South Texas: The University of Texas at Austin, Bureau of Economic Geology RCRL Annual Field Trip Guidebook, 29 p.
- Janson, Xavier, Kerans, Charles, Bellian, J. A., and Playton, T. E., 2003, 3D modeling of mixed siliciclastic-carbonate cycles in the Upper Pennsylvanian Holder Formation, Dry Canyon area, Oro Grande Basin: The University of Texas at Austin, Bureau of Economic Geology, RCRL Laboratory Field Trip Guidebook, 46 p.
- Kerans, Charles, Bellian, Jerry, and Playton, Ted, 2002, 3D modeling of carbonate heterogeneity styles: The University of Texas at Austin, Bureau of Economic Geology Reservoir Characterization Research Laboratory annual field trip guidebook, 48 p.
- Kerans, Charles, Kempter, K., Rush, Jason, and Tinker, S. W., 1999, Pennsylvanian stratigraphic framework and distribution of reservoir facies, Big Hatchet Mountains, southwestern New Mexico: The University of Texas at Austin, Bureau of Economic Geology RCRL Annual Field Trip Guidebook, 44 p.
- Kerans, Charles, Kempter, K., and Rush, Jason, 1998, Anatomy of a coastal paleokarst, Abo Formation (Leonardian), Apache Canyon, West Texas: The University of Texas at Austin, Bureau of Economic Geology Field Trip Guidebook, 75 p.
- Kerans, Charles, and Tinker, S. W., 1998, Process approach to sequence stratigraphic reservoir model construction: American Association of Petroleum Geologists Field Seminar, Carlsbad, New Mexico Notebook and Exercises, unpaginated.
- Kerans, Charles, Zahm, L., Kempter, K., and Ward, W. B., 1997, Sequence stratigraphy of reservoir analog Cretaceous (Albian) carbonates, Pecos River, West Texas: The University of Texas at Austin, Bureau of Economic Geology Field Trip Guidebook, 85 p.
- Kerans, C., Fitchen, W., Zahm, L., Ward, B., Osleger, D., Barnaby, R., and Jennings, J., 1997, Carbonate reservoir heterogeneity styles within a sequence stratigraphic framework: Albian (Cretaceous), Pecos River Canyon: The University of Texas at Austin, Bureau of Economic Geology, RCRL Laboratory Field Trip Guidebook, 130 p.
- Kerans, Charles, Barnaby, R. J., Ward, W. B., and Jennings, J. W., Jr., 1996, Painted Canyon window, tide-dominated foreshore-shoreface rudist grainstones and bafflestones, Albian 19 HST: The University of Texas at Austin, Bureau of Economic Geology Field guide for Carbonate Reservoir Characterization Research Laboratory annual meeting, 47 p.
- Kerans, Charles, Fitchen, W. M., Kempter, K., and Zahm, L., 1996, High-frequency sequence framework of Cretaceous (Albian) carbonate ramp reservoir analog outcrops, Pecos River Canyon, northwestern Gulf of Mexico Basin: The University of Texas at Austin, Bureau of Economic Geology Field Trip Guidebook, 105 p.
- Kerans, Charles, Bebout, D. G., and Kempter, K., 1994, Cycle hierarchy and sequence framework for predicting reservoir heterogeneity styles—Fredericksburg Division, Cretaceous (Albian) of the Austin area: The University of Texas at Austin, Bureau of Economic Geology guidebook prepared for StrataModel Conference, 34 p.
- Bebout, D. G., and Kerans, Charles, 1993, Guide to the Permian Reef Geology Trail, McKittrick Canyon, Guadalupe Mountains National Park, West Texas: The University of Texas at Austin, Bureau of Economic Geology Guidebook 26, 48 p.
- Ruppel, S. C., and Kerans, Charles, 1987, Paleozoic buildups and associated facies, Llano Uplift, Central Texas: Austin Geological Society Guidebook 10, 33 p.

#### Chapters/Sections



- Playton, T., Janson, Xavier, and Kerans, C., Chapter 18, Carbonate slopes, in *Facies Models*, N. P. James and R. W. Dalrymple, eds., 449-476.
- Osleger, D. A., Barnaby, Roger, and Kerans, Charles, 2004, Chapter 5. A laterally accreting grainstone margin from the Albian of northern Mexico: outcrop model for Cretaceous carbonate reservoirs, *in* Grammer, G. M., Harris, P. M., and Eberli, G. P., eds., *Integration of outcrop and modern analogs in reservoir modeling: American Association of Petroleum Geologists, AAPG Memoir 80*, p. 93–108.

- French, V. L., and Kerans, Charles, 2004, Chapter 9. Accommodation-controlled systems-tractspecific facies partitioning and resulting geometric development of reservoir grainstone ramp-crest shoal bodies, *in* Grammer, G. M., Harris, P. M., and Eberli, G. P., eds., *Integration of outcrop and modern analogs in reservoir modeling: American Association of Petroleum Geologists, AAPG 80 Memoir*, p. 171–190.
- Hovorka, S. D., Nance, H. S., and Kerans, Charles, 1994, Chapter 19, Parasequence geometry as a control on permeability evolution: examples from the San Andres and Grayburg Formations in the Guadalupe Mountains, New Mexico, *in* Loucks, R. G., and Sarg, J. F., eds., *Carbonate sequence stratigraphy: recent developments and applications: American Association of Petroleum Geologists, Memoir 57*, p. 493–514.
- Kerans, Charles, and Nance, H. S., 1991, High frequency cyclicity and regional depositional patterns of the Grayburg Formation, Guadalupe Mountains, New Mexico, *in* Meader-Roberts, Sally, Candelaria, M. P., and Moore, G. E., eds., *Sequence stratigraphy, facies, and reservoir geometries of the San Andres, Grayburg, and Queen Formations, Guadalupe Mountains, New Mexico and Texas: Society of Economic Paleontologists and Mineralogists, Permian Basin Section, and Society of Sedimentary Geology, Publication 91-32*, p. 53–70.
- Kerans, Charles, and Nance, H. S., 1991, Road log: third day, Grayburg Formation on the Shattuck Valley wall, *in* Meader-Roberts, Sally, Candelaria, M. P., and Moore, G. E., eds., *Sequence stratigraphy, facies, and reservoir geometries of the San Andres, Grayburg, and Queen Formations, Guadalupe Mountains, New Mexico and Texas: Society of Economic Paleontologists and Mineralogists, Permian Basin Section, and Society of Sedimentary Geology, Publication 9132*, p. 91–96.
- Weber, L. J., Jr., Kerans, Charles, and Nance, H. S., 1991, Road log: second day, Carlsbad, New Mexico, to Algerita Escarpment via Dark Canyon, *in* Meader-Roberts, Sally, Candelaria, M. P., and Moore, G. E., eds., *Sequence stratigraphy, facies, and reservoir geometries of the San Andres, Grayburg, and Queen Formations, Guadalupe Mountains, New Mexico and Texas: Society of Economic Paleontologists and Mineralogists, Permian Basin Section, and Society of Sedimentary Geology, Publication 91-32*, p. 71–90.
- Kerans, Charles, 1991, Geologic characterization of San Andres reservoirs: outcrop-analog mapping, Algerita Escarpment, Guadalupe Mountains, and Seminole San Andres unit, northern Central Basin Platform, *in* Kerans, Charles, Lucia, F. J., Senger, R. K., Fogg, G. E., Nance, H. S., Kasap, Ekrem, and Hovorka, S. D., *Characterization of reservoir heterogeneity in carbonate-ramp systems, San Andres/Grayburg, Permian Basin: The University of Texas at Austin, Bureau of Economic Geology, Reservoir Characterization Research Laboratory, final contract report*, p. 3–46.
- Playford, P. E., Hurley, N. F., Kerans, Charles, and Middleton, M. F., 1989, Reefal platform development, Devonian of the Canning Basin, western Australia, *in* *Controls on carbonate platform and basin development: Society of Economic Paleontologists and Mineralogists, Special Publication No. 44*, p. 187–202.
- Kerans, Charles, and Donaldson, J. A., 1989, Deepwater conical stromatolite reef, Sulky Formation (Dismal Lakes Group), Middle Proterozoic, Northwest Territories, *in* Geldsetzer, H. H. J., James, N. P., and Tebbutt, G. E., eds., *Reefs, Canada and adjacent area: Canadian Society of Petroleum Geologists, Memoir 13*, p. 81–88.
- Kerans, Charles, and Lucia, F. J., 1989, Recognition of second, third, and fourth/fifth order scales of cyclicity in the El Paso Group and their relation to genesis and architecture of Ellenburger reservoirs, *in* Cunningham, B. K., and Cromwell, D. W., eds., *The lower Paleozoic of West Texas and southern New Mexico—modern exploration concepts: Permian Basin Section, Society of Economic Paleontologists and Mineralogists, Publication No. 89-31*, p. 105–110.
- Kerans, Charles, and Donaldson, J. A., 1988, Proterozoic paleokarst profile, Dismal Lakes Group, N.W.T., Canada, *in* James, N. P., and Choquette, P. W., eds., *Paleokarst: New York, Springer-Verlag*, p. 167–182. Kerans, Charles, Hurley, N. F., and Playford, P. E., 1986, Marine diagenesis in Devonian reef complexes of the Canning Basin, Western Australia, *in* Schroeder, J. H., and Purser, B. H., eds., *Reef diagenesis: Berlin, Springer Verlag*, p. 357–380.

## Articles

Kerans, Charles, Zahm, Chris, Bachtel, Steve, Hearty, Paul H., Cheng, Hai, 2019, Anatomy of a late Quaternary carbonate island: Constraints on timing and magnitude of sea-level fluctuations, West Caicos, Turks and Caicos Islands, *BWI, Quaternary Science Reviews*, v. 205, 193-223.

He., Y, C. Kerans, H. Zeng, X. Janson, S.Z. Scott, 2018, Improving three-dimensional high-order seismic-stratigraphic interpretation for reservoir model construction: An example of geostatistical and seismic forward modeling of Permian San Andres shelf–Grayburg platform mixed clastic–carbonate strata: *AAPG Bulletin* (accepted on Nov. 21, 2018), doi: [10.1306/11211817244](https://doi.org/10.1306/11211817244)

Hurd, Gregory S., Kerans, Charles, Frost, Edmond L., Simo, Antonio, and Janson, Xavier, 2018, *ediment*  *gravity*  flow deposits and three-dimensional stratigraphic architectures of the linked Cutoff, upper Bone Spring, and upper Avalon system, Delaware Basin, *AAPG Bulletin*, v. 102, p. 1703-1737.

Kocurek, Gary, Martindale, Rowan C., Day, Mackenzie, Goudge, Timothy, Kerans, Charles, et al, 2018, Antecedent aeolian dune topographic control on carbonate and evaporite facies: Middle Jurassic Todilto Member, Wanakah Formation, Ghost Ranch, New Mexico, USA, *Sedimentology*, v.

Nolting, Andrea, Zahm, Chris, Kerans, Charles, and Nikolinakou, Maria Aikaterini, 2018, Effect of carbonate platform morphology on syndepositional deformation: Insights from numerical modeling, *Journal of Structural Geology*, v. 115, p. 91-102.

Smith, Benjamin P., and Kerans, Charles, 2018, Interpreting stratal architecture in shelf-top carbonate systems: An example from the Seven Rivers Formation, McKittrick Canyon, New Mexico, *Journal of Sedimentary Research*, v. 88, p. 475-494.

Fallatah, Mohammed, and Kerans, Charles, 2018, Stratigraphic evolution of the Late Jurassic Hanifa Formation along the Tuwaiq Escarpment, Saudi Arabia: Evidence for a carbonate ramp system; *Sedimentary Geology* 363, 152-180

Nazgahah, Mahmoud, and Kerans, Charles, 2018, Late Pennsylvanian glaciation: Evidence of icehouse conditions from Canyon and cisco units, Midland Basin, Texas, *Marine and Petroleum Geology*, v 94, p.198-211.

Playton, T. E., and Kerans, Charles, 2017, Architecture and Genesis of Prograding Deep Boundstone Margins and Debris-Dominated Carbonate Slopes: Examples from the Permian Capitan Formation, Southern Guadalupe Mountains, West Texas; *Sedimentary Geology*

He, Yawen, Zeng, Hongliu, and Kerans, Charles, 2017, Seismic chronostratigraphy of mixed versus pure carbonate shelf margin in Permian Basin; *SEG Technical Program Expanded Abstracts* p. 1918-1923

Phelps, RM, Kerans, Charles, and Loucks, R.G., 2017, Reply to the Discussion by Rose of Phelps et al.(2014)'Oceanographic and eustatic control of carbonate platform evolution and sequence stratigraphy on the Cretaceous (Valanginian–Campanian) passive margin, northern Gulf of Mexico', *Sedimentology*, 61, 461–496

Playton, T. E., C Kerans, RM Hocking, PW Haines, 2017, Excursions along the Lennard Shelf Devonian carbonates, Canning Basin, Western Australia; *AAPG Bull.*, v 101, p. 495-503

Kerans, Charles, Zahm, Chris, Garcia-Fresca, Beatriz, and Harris, P. Mitch, 2017, Guadalupe Mountains, West Texas and New Mexico: Key excursions, *AAPG Bull.*, v. 101, p. 465-474.

Van Simaey, S., et al. (2017). "Facies-independent reservoir characterization of the micropore-dominated Word field (Edwards Formation), Lavaca County, Texas." *AAPG Bulletin* **101**(1): 73-94.

Loucks, R. G., et al. (2017). "Documentation and characterization of the Lower Cretaceous (Valanginian) Calvin and Winn carbonate shelves and shelf margins, onshore northcentral Gulf of Mexico." *AAPG Bulletin* **101**(1): 119-142.

Rowe, Harry, Robert Loucks, and Charles Kerans, 2015, Core chemostratigraphy and elemental geochemistry along a dip section, Pearsall Formation, Lower Cretaceous, Central to South Texas, *Unconventional Resources and Technology Conf. X 2154897*, 5 pp.



- Trembath-Reichert, E., et al. (2016). "Gene Sequencing-Based Analysis of Microbial-Mat Morphotypes, Caicos Platform, British West Indies." *Journal of Sedimentary Research* **86**(6): 629-636.
- Hurd, G. S., Kerans, C., Fullmer, S., & Janson, X. (2016). Large-Scale Inflections in Slope Angle Below the Shelf Break: A First Order Control On the Stratigraphic Architecture of Carbonate Slopes: Cutoff Formation, Guadalupe Mountains National Park, West Texas, USA. *Journal of Sedimentary Research*, **86**(4), 336-362.
- Smith, Gordon, Chris Zahm, and Charles Kerans, 2016, Mechanically-Partitioned Deformation Related to Reactivated Oblique Slip Faults, Pecos River Canyon, GCAGS Journal, v. 5, p 238-252.
- Ted E. Playton and Charles Kerans, 2015, Late Devonian Carbonate Margins and Foreslopes of the Lennard Shelf, Canning Basin, Western Australia, Part B: Development During Progradation and Across the Frasnian–Famennian Biotic Crisis, *Journal of Sedimentary Research*, Vol. 85 (2015), No. 11. (November), Pages 1362-1392.
- Ted E. Playton and Charles Kerans, 2015, Late Devonian Carbonate Margins and Foreslopes of the Lennard Shelf, Canning Basin, Western Australia, Part A: Development During Backstepping and the Aggradation-To-Progradation Transition, *Journal of Sedimentary Research* Vol. 85 (2015), No. 11. (November), Pages 1334-1361
- Phelps, Ryan M., Charles Kerans, Jason Jeremiah, Rui O Da-Gama, David Hull, and Robert G. Loucks, *in review*, Response and recovery of the Comanche carbonate platform surrounding multiple Cretaceous Oceanic Anoxic Events, northern Gulf of Mexico, *Cretaceous Research*, V 54, p 117-144.
- Clayton, Jason, and Kerans, Charles, 2013, Reservoir compartmentalization of a deep-water ooid fan, Happy Field, Permian Basin, *in* Verwer, Klass, and Playton, Ted, Editors, *Deposits, Architecture and Controls of Carbonate Margin, Slope and Basinal Settings*, SEPM Special Publication 105, p. 359-383.
- Kerans, Charles, Playton, Ted, Phelps, R.A., and Scott, Samuel Z., 2013, Ramp-to-Rimmed Shelf Transition in the Guadalupian (Permian) of the Guadalupe Mountains, West Texas and New Mexico, *in* Verwer, Klass, and Playton, Ted, Editors, *Carbonate Slopes*, SEPM special publication no. 105, p. 26-49.
- Phelps, Ryan M., Kerans, Charles, Loucks, Robert, Da gama, Rui, Jeremiah, Jason, and Hull, David, 2013, Oceanographic and eustatic control of carbonate platform evolution and sequence stratigraphy on a Cretaceous (Valanginian-Campanian) passive margin, northern Gulf of Mexico, *Sedimentology*, doi:10.1111/sed12062 – online version out only so far
- Frost, Edmund L., III, Budd, David A., and Kerans, Charles, 2012, Syndepositional deformation in an high-relief carbonate platform and its effect on early fluid flow as revealed by dolomite patterns, *Journal of Sedimentary Research*, v. 82, p. 913-932.
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#### Contract Reports

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- Lucia, F. J., and Kerans, Charles, 1997, Shuaiba (Middle Cretaceous) reservoir, Idd el Shargi field: The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for Occidental Petroleum of Qatar Ltd., 65 p.
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- Kerans, Charles, Lucia, F. J., Senger, R. K., Fogg, G. E., Nance, H. S., and Hovorka, S. D., 1993, Characterization of facies and permeability patterns in carbonate reservoirs based on outcrop analogs: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the Assistant Secretary for Fossil Energy, U.S. Department of Energy, under contract no. DEAC22-89BC14470, 160 p.
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- Tyler, Noel, Barton, M. D., Bebout, D. G., Fisher, R. S., Grigsby, J. D., Guevara, E. H., Holtz, M. H., Kerans, Charles, Levey, R. A., and Nance, H. S., 1992, Characterization of oil and gas reservoir heterogeneity: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the U.S. Department of Energy, under contract no. DE-FG22-89BC-14403, 219 p.
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- Kerans, Charles, Lucia, F. J., and Fogg, G. E., 1989, San Andres/Grayburg reservoir characterization research laboratory: progress report, year one, 1988/89: The University of Texas at Austin, Bureau of Economic Geology, contract report, 26 p.

#### Course Notes

- Kerans, Charles, and Tinker, S. W., 1997, Sequence stratigraphy and characterization of carbonate reservoirs: SEPM (Society for Sedimentary Geology), Short Course Notes No. 40, 165 p.

Kerans, Charles, 1995, Use of one-and two-dimensional cycle analysis in establishing high-frequency sequence frameworks, *in* Read, J. F., Kerans, C., and Weber, L. J., organizers, Milankovitch sea level changes, cycles and reservoirs on carbonate platforms in greenhouse and ice-house worlds: SEPM (Society for Sedimentary Geology), Short Course Notes No. 35, p. 1–19.

## Dissertation

Sedimentology and stratigraphy of the Dismal Lakes Group, Proterozoic, Northwest Territories, Ph.D. dissertation, 315 p., 1982.

## Research Support

Co-Principal Investigator with Robert G. Loucks (BEG) and Thomas Steuber (Petroleum Institute, Abu Dhabi, UAE) - Factors controlling dual porosity networks in low-resistivity pay carbonates, The Petroleum Institute Sponsored Research Agreement UTA14-000084, \$397,343

Co-Principal Investigator RCRL Program, 2010-2014 and present) 31 companies @ \$50K (\$1,550,000/yr, averages \$1,000,000 for last 5 years)

Co-Principal Investigator RCRL Program, 2006-2009 and present) 21 companies @ \$45K (\$945,000/yr, averages \$900K for last 5 years)

Principal Investigator: Airborn Lidar, Guadalupe Mountains (2009-10, \$145,000).

Co-Principal Investigator, Cretaceous carbonate stratigraphy and reservoirs of the Campos Basin, Petrobras, \$1,300,000 (2007-2009)

Principal Investigator: Arab-D Outcrop Analysis and Modeling, (2004-2005, \$300,000).

Principal Investigator: RCRL Program, 14 Associates (2002-2003, \$513,000).

Principal Investigator: Pemex Phase II, (2002-2003, \$1,022,000).

Principal Investigator: Ghawar Workshop, (2002-2003, \$31,000?).

Principal Investigator: Oxy Permian Cogdell Project, (2002-2003, \$50,000).

Co-principal Investigator (with F. J. Lucia, 1992–1998): Characterization of San Andres and Grayburg reservoirs, various donors (cumulative support 1989–1999, \$5 million).

Principal Investigator: Characterization of facies and permeability patterns in carbonate reservoirs based on outcrop analogs, Department of Energy (1990–1991, \$285,000).

Overseeing Geologist: Annex I to the Agreement Relating to Fossil Energy Resource Characterization, Research, Technology Development and Technology Transfer, Office of the Governor of Texas (1988–1990, \$375,000 for Oil Resources).

Principal Investigator: Characterization of San Andres and Grayburg Reservoirs, various donors (1989–1990, \$350,000 for first year, similar level for 1990–1991).

Principal Investigator: Integrated outcrop and subsurface studies of the interwell environment of carbonate reservoirs: Clear Fork (Leonardian Age) reservoirs, West Texas and New Mexico, DOE contract DE-AC26-98BC15105 (, \$718,000).

## Recent Invited Lectures

Oklahoma State University, November 7, 2014, Impact of oceanic anoxic events on the carbonate platforms of the NW Gulf of Mexico

University of Texas San Antonio, October 1, 2014, Cretaceous sequence stratigraphy and oceanic anoxic events, NW Gulf of Mexico

University of Kansas, November, 2013, Carbonate sequence stratigraphy and reservoir characterization

### Recent Keynote Addresses

Karst from Reservoirs to Recent, Karst Waters institute, June, 2008, Rapid City, SD -Predicting architecture and recovery behaviour of meteoric paleokarst reservoirs from hierarchy of associated unconformity surfaces

SEPM Research Conference, Outcrops Revitalized, June, Kilkee, Ireland – 3D modeling of carbonate outcrops for refinement of subsurface modeling

Facies architecture of Shuaiba Carbonate Reservoirs – Global Signal and Composite Sequence Framework, EAGE First Arabian Plate Geology Workshop, Regional Depositional History, Stratigraphy, and Paleogeography of the Shuaiba (Invited Keynote Address).

### AAPG Short Course

Process approach to sequence stratigraphic reservoir characterization : AAPG Field Seminar for American Association of Petroleum Geologists (co-instructed with S. W. Tinker) , Carlsbad, New Mexico, October 2000.

Process approach to sequence stratigraphic reservoir characterization: AAPG Field Seminar (coconstructed with S. W. Tinker): October 1999.

Process approach to sequence stratigraphic reservoir characterization: AAPG Field Seminar (coconstructed with S. W. Tinker): October 1998.

AAPG current processes and technologies school: "Recent advances in sequence stratigraphy" module: AAPG Annual Meeting, 1998.

AAPG current processes and technologies school: "Recent advances in sequence stratigraphy" module: AAPG Annual Meeting, 1997.

AAPG current processes and technologies school: "Recent advances in sequence stratigraphy" module: AAPG Annual Meeting, 1996.

### BEG Colloquia

Geologic and seismic modeling of Sacroc field: presented at BEG seminar (with Fred Wang), Austin, Texas,

Evolving technologies and opportunities in carbonate systems: presented at BEG seminar on AAPG talk, Austin, Texas,

### Corporate Schools, Research Seminars

Stratigraphic patterns and controls on reservoir quality of the giant Poza Rica field, Albian, Cretaceous, Mexico: presented at Reservoir Characterization Research Laboratory, Austin, Texas, October 2003.

Integrated analysis of the Cogdell field—stratigraphic framework from core, logs, and 3D seismic data: presented at Reservoir Characterization Research Laboratory Annual Review, Austin, Texas, October 2003.

Review of icehouse characteristics and reservoirs—new generalizations: presented at Reservoir Characterization Research Laboratory Annual Review, Austin, Texas, October 2003.

3D modeling of deep-water carbonate outcrops, Victorio Canyon: presented to Reservoir Characterization Division, ExxonMobil Upstream Research Company, Houston, Texas, June 2003.

3D Modeling of carbonate outcrops and application to deep-water systems, Victorio Canyon: presented to ExxonMobil Upstream Research Company, Houston, Texas, June 2003.

Integrating ILRIS data to construct a 3D model—carbonate toe-of-slope fan-channel complexes, Early Permian, Victorio Canyon: presented at RCRL Annual Review Meeting, Austin, Texas, October 2002.

Internal anatomy and lateral facies variability of a Cretaceous (lower Albian) caprinid buildup—Pipe Creek, Texas, a preview: presented at RCRL Annual Review Meeting, Austin, Texas, October 2002.

Upper Shuaiba Reservoirs of North Oman: presented at RCRL Annual Review Meeting, Austin, Texas, October 2002.

The value of 3D seismic for interpretation of icehouse reservoir frameworks—Sacroc and selected examples: presented at RCRL Annual Review Meeting, Austin, Texas, October 2002.

Stratigraphy and reservoir facies development: part of Corporate School: Slope-Basin Carbonate and Mixed Clastic-Carbonate Systems for Bureau's RCRL program(with Ted Playton), Van Horn, Texas, October 2001.

Sequence framework and facies architecture of a Cretaceous carbonate ramp: late Albian of the Pecos River, West Texas : Corporate School for BP (with Laura Zahm and Scott Tinker), Austin, Texas, September 2001.

Carbonate reservoir characterization: Corporate School for ADCO/ADMA (with Jim Jennings), Abu Dhabi, United Arab Emirates, May 2001. Carbonate reservoir characterization: Corporate School for ADCO/ADMA (with Jim Jennings), Abu Dhabi, United Arab Emirates, April 2001.

Carbonate sequence stratigraphy : Research Seminar for Sequence Stratigraphy, GEO 380N, Department of Geological Sciences, The University of Texas at Austin (series of 3 lectures), Austin, Texas, April 2001.

Carbonate reservoir characterization: Corporate School for Oxy International (with F. J. Lucia and Jim Jennings), Houston, Texas, April 2001. Carbonate reservoir characterization: Corporate School for Oxy International (with F. J. Lucia and Jim Jennings), Houston, Texas, January 2001.

Integrated reservoir characterization : Corporate School for Pemex (with F. J. Lucia), Tampico, Mexico, 2000. Integrated reservoir characterization : Corporate School for Pan Canadian (with F. J. Lucia), Calgary, Canada, 2000.

Integrated reservoir characterization : Corporate School for Saudi Aramco (with F. J. Lucia), Dharan, Saudi Arabia, 2000. Integrated reservoir characterization : Corporate School for YPF (with F. J. Lucia), Austin, Texas, 2000.

Integrated reservoir characterization : Corporate School for Petroleum Development (with F. J. Lucia), Muscat, Oman, 2000. Integrated reservoir characterization : Corporate School for Elf Aquitaine (with F. J. Lucia), Pau, France, 2000.

Carbonate Sequence Stratigraphy, How Carbonates Fit: Total Exploration/Production, March 1999. Carbonate Sequence Stratigraphy, How Carbonates Fit: Elf Aquitaine Research, March 1999. Carbonate Sequence Stratigraphy and Reservoir Characterization: Anadarko Petroleum, 1999. Integrated Reservoir Characterization (co-taught with F. J. Lucia) (offered on request): Petroleum

Development Oman, Saudi Aramco, Pan Canadian, Pemex, YPF, Elf Aquitaine, 1999.

Integrated Reservoir Characterization (co-taught with F. J. Lucia) (offered on request): Petroleum Development Oman, Saudi Aramco, Pan Canadian, Pemex, YPF, Elf Aquitaine, 1998. Sequence Stratigraphy and Characterization of Carbonate Reservoirs (3-day course with Scott Tinker): Marathon Oil Company, March 1997.

Integrated Reservoir Characterization (co-taught with F. J. Lucia) (offered on request): Petroleum Development Oman, Saudi Aramco, Pan Canadian, Pemex, YPF, Elf Aquitaine, 1997. Integrated Reservoir Characterization (co-taught with F. J. Lucia) (offered on request): Petroleum

Development Oman, Saudi Aramco, Pan Canadian, Pemex, YPF, Elf Aquitaine, 1996. Integrated Reservoir Characterization (co-taught with F. J. Lucia) (offered on request): Petroleum Development Oman, Saudi Aramco, Pan Canadian, Pemex, YPF, Elf Aquitaine, 1995.

Workshops Keynote Speaker, GeoArabia Shuaiba Workshop: 2004. Carbonate reservoir characterization: 2-week course: presented to Perez Companc S.A., Austin, Texas and Carlsbad, New Mexico (with Jerry Lucia), 1997.

#### Lectures and Addresses

Keynote Speaker: AAPG Hedberg Conference on Carbonate Reservoirs, March 2004.

Industrial research consortiums—developing new methods to better understand hydrocarbon reservoirs: presented at Meeting of the Texas PTTC Producers Advisory Group (PAG) and State of Texas Policy Makers, Austin, Texas, May 22, 2003.

Bringing outcrops to life as animated 3D models: application to Wolfcamp deepwater carbonate play: presented at PBS-SEPM luncheon meeting, Midland, Texas, January 21, 2003.

New developments in carbonate sequence stratigraphy and reservoir characterization: presented to South Texas Geological Society, Austin, Texas, December 2002.

New developments in carbonate sequence stratigraphy and reservoir characterization: presented to South Texas Geological Society, December 2002.

Three-dimensional modeling of carbonate outcrop analogs for enhanced reservoir characterization: presented to Saudi Aramco, Dhahran, Saudi Arabia, November 2002.

Three-dimensional modeling of carbonate outcrop analogs for enhanced reservoir characterization: presented to Saudi Aramco, Dhahran, Saudi Arabia, November 2002.

Integrating Illris data to construct a 3D model—carbonate toe-of-slope fan-channel complexes, Early Permian, Victorio Canyon: presented at RCRL annual review meeting, Austin, Texas, October 2002.

The value of 3D seismic for interpretation of icehouse reservoir frameworks—Sacroc and selected examples: presented at RCRL annual review meeting, Austin, Texas, October 2002.

Internal anatomy and lateral facies variability of a Cretaceous (lower Albian) caprinid buildup—Pipe Creek, Texas, a preview: presented at RCRL annual review meeting, Austin, Texas, October 2002.

Upper Shuaiba reservoirs of North Oman: presented at RCRL annual review meeting, Austin, Texas, October 2002.

Seismic and sequence stratigraphy in carbonate reservoir characterization: presented at Permian Basin Geophysical Society Exploration Symposium, Midland, Texas, May 16, 2002.

Seismic and sequence stratigraphy in carbonate reservoir characterization: presented at Permian Basin Geophysical Society Exploration Symposium, Midland, Texas, May 2002.

New developments in the application of sequence stratigraphic concepts to analysis of carbonate reservoir characterization: presented to ExxonMobil, U.S. West Division, Houston, Texas, April 2002.

New developments in the application of sequence stratigraphic concepts to analysis of carbonate reservoir characterization for ExxonMobil U.S. West division: presented to Greenspoint, Houston, Texas, April 2002.

The evolving role of sequence stratigraphy in carbonate reservoir characterization: invited lecture: presented at Vail Symposium on Sequence Stratigraphy, Rice University Geology Department, Houston, Texas, April 2002.

The evolving role of carbonate sequence stratigraphy in reservoir characterization: presentation at Vailfest, Symposium in Honor of Peter Vail, Rice University, Houston, Texas, March 2002.

Sacroc reservoir model and implications for construction of reservoir models along the Horseshoe At9oll trend: presented to Oxy Permian, Austin, Texas, March 2002.

The evolving role of carbonate sequence stratigraphy in reservoir characterization: presented at Vailfest, a symposium in honor of Peter Vail, Rice University, Houston, Texas, March 2002.

Sequence framework and depositional models of Middle Eastern Cretaceous reservoirs: presented to the Dhahran Geological Society, Kobar, Saudi Arabia, March 2002.

Sequence framework and depositional models of Middle Eastern Cretaceous reservoirs: presented to the Society of Petroleum Engineers, Kuwait City, Kuwait, March 2002.

Evolving technologies and opportunities in carbonate systems: presented to the Emirates Geological Society, Abu Dhabi, United Arab Emirates, March 2002.

Evolving technologies and opportunities in carbonate systems: presented to Petroleum Development Oman, Muscat, Oman, March 2002.

Evolving technologies and opportunities in carbonate systems: presented at King Faad University, Dhahran, Saudi Arabia, March 2002.

Distinguished Lecture Series: Sequence framework and depositional models of Middle Eastern Cretaceous reservoirs: Dhahran Geological Society, Kobar, Saudi Arabia, March 2002.

Distinguished Lecture Series: Evolving technologies and opportunities in carbonate systems: King Faad University, Dhahran, Saudi Arabia, March 2002.

Distinguished Lecture Series: Evolving technologies and opportunities in carbonate systems: Petroleum Development Oman, Muscat, Oman, March 2002.

Distinguished Lecture Series: Evolving technologies and opportunities in carbonate systems: Emirates Geological Society, Abu Dhabi, United Arab Emirates, March 2002.

Sequence framework and depositional models of Middle Eastern Cretaceous reservoirs: presented to the Oman Geological Society, Muscat, Oman, March 2002.

Sacroc reservoir model and implications for construction of reservoir models along the Horseshoe Atoll trend: presented to OXY Permian, Austin, Texas, March 2002.

Distinguished Lecture Series: Sequence framework and depositional models of Middle Eastern Cretaceous reservoirs: Society of Petroleum Engineers, Kuwait City, Kuwait, March 2002.

Distinguished Lecture Series: Sequence framework and depositional models of Middle Eastern Cretaceous reservoirs: Oman Geological Society, Muscat, Oman, March 2002.

Construction of a static reservoir model for the Sacroc Unit: presented to Kinder Morgan, Austin, Texas, February 2002.

Construction of a static reservoir model for the Sacroc Unit: presented to Kinder Morgan, Austin, Texas, February 2002.

Facies, 1D, and 3D model of Northern Platform, SACROC Area: presented at Carbonate Reservoir Characterization Research Laboratory Annual Review Meeting, Austin, Texas, October 2001.

Regional trends in Shuaiba shelf margin reservoir architecture: presented at Carbonate Reservoir Characterization Research Laboratory Annual Review Meeting, Austin, Texas, October 2001.

Slope and basin systems of the Lower Permian—depositional architecture in a sequence framework: presented at Carbonate Reservoir Characterization Research Laboratory Annual Review Meeting, Austin, Texas, October 2001.

Slope and basin systems of the Lower Permian—depositional architecture in a sequence framework: presented at Carbonate Reservoir Characterization Research Laboratory Annual Review Meeting, Van Horn, Texas, October 2001.

Carbonate facies dimensions for petrophysical modeling: presented to Abu Dhabi Geological Society, Abu Dhabi, United Arab Emirates, May 2001.

Geologic setting of Wolfcampian carbonates, Apache Canyon: presented at Permian Basin Section, SEPM, Annual Field Trip, Van Horn, Texas, March 2001.

Recent developments in carbonate reservoir characterization: presented to Saudi Aramco, Dhahran, Saudi Arabia, February 2001.

Carbonate stratigraphy and reservoir framework of SACROC Unit, Permian Basin: presented to Kinder Morgan and Marathon Oil Companies, Austin, Texas, January 2001.

Sequence geometry and stratal architecture as indicators of reservoir heterogeneity styles: presented to American Association of Petroleum Geologists -European Association of Geologists and Explorationists Carbonate Reservoir Characterization and Modeling for Enhanced Hydrocarbon Discovery and Recovery, CITY?October 1, 2000.

New play concepts for the latest Wolfcamp-Early Leonardian of the Permian Basin: presented at SEPM, Permian Basin Section, luncheon, Midland, Texas, September 19, 2000.

Sequence geometry as a predictor of reservoir heterogeneity styles: presented at BP-Amoco Carbonate Reservoirs Conference, London, England, September 6, 2000.

Integrated research in the Bureau's Carbonate RCRL Group: presented to BP-Amoco Carbonate Reservoirs Conference, London, England, September 6, 2000.

Sedimentology and stratigraphy of Yibal Shuaiba field and relation to Shuaiba fields in the Bab intrashelf basin: presented to Petroleum Development Oman, Muscat, Oman, June 24, 2000.



Comparison of reservoir architectures of Idd el Shargi North Dome and South Dome: presented to OXY Qatar , Doha, Qatar, June 22, 2000.

Stratigraphy and reservoir architecture of Shuaiba reservoirs, Middle East: presented to Saudi Aramco, Dhahran, Saudi Arabia, May 9, 2000.

Diamond M Abo and Clear Fork reservoirs, eastern Midland Basin, remaining hydrocarbon potential: presented to Southwestern Energy, Houston, Texas, May 3, 2000.

Carbonate sequence stratigraphy and reservoir characterization for Permian and Cretaceous carbonate systems: presented to Shell International Exploration and Production, Rijswijk, Netherlands, February 2000.

Carbonate reservoir database for prediction of reservoir architecture and reservoir heterogeneity styles: presented to Chevron Intercompany Technology Group on Carbonates, Chevron USA, New Orleans, LA, November 10, 1999.

Carbonate object modeling for advanced reservoir characterization: presented to Chevron Intercompany Technology Group on Carbonates, Chevron USA, New Orleans, November 10, 1999.

A methodologic approach to sequence stratigraphic reservoir model construction: presented to Chevron Intercompany Technology Group on Carbonates, Chevron USA, November 10, 1999.

Predicting stratigraphic layering schemes for reservoir modeling: presented to Petroleum Development Oman, Muscat, Oman, November 9, 1999.

Icehouse carbonate reservoirs of the Horseshoe Atoll, Permian Basin: presented to the 1999 Reservoir Characterization Research Laboratory for Carbonates Annual Review Meeting, Carlsbad, New Mexico, October 9, 1999.

Stratigraphic framework of carbonate reservoir analog strata, Big Hatchet Range, southwestern New Mexico: presented to the 1999 Reservoir Characterization Research Laboratory for Carbonates Annual Review Meeting, Carlsbad, New Mexico, October 9, 1999.

Developing an integrated database for carbonate stratigraphic, petrophysical, and engineering data: presented to the 1999 Reservoir Characterization Research Laboratory for Carbonates Annual Review Meeting, Carlsbad, New Mexico, October 8, 1999.

Carbonate reservoir characterization with a focus on Permian fields of the Permian Basin: presented to Anadarko Petroleum Company, Houston, (with F. J. Lucia), April 29, 30, 1999.

Carbonate reservoir characterization: series of three lectures: presented to The University of Texas at Austin, Department of Geological Sciences (Geology 383R), Austin, 1999.

Sequence stratigraphic analysis for reservoir characterization, how carbonates fit: presented at Elf Aquitaine Exploration/Production Research and Total Exploration/Production /Research, Pau, France, and Paris, France, 1999.

Carbonate sequence stratigraphy of Cretaceous and Permian systems: presented at IFP School, Paris, France, 1999.

Advanced methods of carbonated reservoir characterization: presented at Southwestern Energy, Houston, 1999.

Quantification of carbonate systems for flow modeling: presented at Gordon Research Conference on Flow in Porous Media, invited theme paper, Andover, New Hampshire, 1999.

Carbonate sequence stratigraphy, series of five lectures for Sequence Stratigraphy, GEO 380N, W. L. Fisher professor: 1999.

Stratigraphic framework of Permian carbonate platforms of the Permian Basin: presented at Permian Basin Graduate Center, November 1998.

Quantification of carbonate systems for flow modeling, Gordon Research Conference: invited theme paper, Andover, New Hampshire, August: 1998.

Sequence stratigraphy of Cretaceous carbonate ramp systems: presented to the Fort Worth Geological Society, Fort Worth, Texas, 1998.

Forward modeling of the Permian Basin, Fundamentals of carbonate sequence stratigraphy, Tools of carbonate sequence stratigraphy, Contrasting styles of carbonate ramp development, Permian of West Texas and Cretaceous of South Texas, High-frequency sequence stratigraphy and the new sedimentology, and Ramp-to-rim evolution in the Permian stratigraphy of the Delaware Basin: presented to The University of Texas at Austin, Department of Geological Sciences, Qualline Lecture Series, Austin, 1998.

AAPG current processes and technologies: recent advances in sequence stratigraphy for reservoir characterization: presented to the American Association of Petroleum Geologists Annual Convention, Salt Lake City, 1998.

Three-dimensional modeling of Cretaceous foreshore grainstones and rudist buildups: presented at Carbonate Reservoir Characterization Research Laboratory Industrial Associates Annual Review, RCRL, El Paso, October 1997.

Paleokarst systems within a stratigraphic hierarchy: presented at Carbonate Reservoir Characterization Research Laboratory Industrial Associates Annual Review, RCRL, El Paso, October 1997.

Results of the Ellenburger study: GRI Secondary Gas Recovery Initiative presentation, Altura offices, Houston, August 1997.

Geologic characterization of the Seminole reservoir, Gaines County, Texas: presented to Seminole San Andres Unit partners, Marathon Technology Center, Littleton, Colorado, August 1997.

Paleokarst systems within a stratigraphic hierarchy: presented to Unocal, Sugarland, Texas, August 1997.

Seismic stratigraphy of San Andres reservoirs, northern Midland Basin: presented to Altura Ltd., June 1997.

Reservoir architecture of Cretaceous outcrops and Middle Eastern fields: presented to Pennzoil, Houston, Texas, April 1997.

Carbonate sequence stratigraphy in reservoir characterization: towards a more predictive stratigraphy: presented at TOTAL Exploration Production International Annual Technical Conference, Paris, France, March 1997.

Application of high-resolution sequence stratigraphy to characterization of carbonate fields: presented to Kuwait Oil Corporation, February 1997.

Carbonate stratigraphic research within the Carbonate Reservoir Characterization Research Laboratory: presented at Petroleum Development Oman, Muscat, Oman, February, 1997.

University Lands Advanced Recovery Initiative: status and future directions: presented at First ULARI Technology Transfer Workshop, Midland, November 1996.

New trends and potential for the Ellenburger play in the Permian Basin: presented at First ULARI Technology Transfer Workshop, Midland, November 1996.

Stratigraphic framework of San Andres and Grayburg reservoirs, University Lands, West Texas: presented at First ULARI Technology Transfer Workshop, Midland, November 1996.

Advances in modeling carbonate reservoirs using outcrop analogs: presented to Saudi Aramco, Dhahran, Saudi Arabia, November 1996.

Reservoir-scale sequence architecture of a Cretaceous (Albian) carbonate ramp complex, analog for Shuaiba fields of the Middle East: presented to Society of Explorationists in the Emirates (SEE), Abu Dhabi, U. A. E., November 1996.

Stratigraphy of the Shuaiba Formation, Idd el Shargi Reservoir, Qatar: presented at Carbonate Reservoir Characterization Research Laboratory Annual Review Meeting, Austin, October 1996.

Sequence framework and object dimensions of key reservoir facies in Cretaceous carbonate ramp successions: presented at British Petroleum, Research Center, Sunbury, England, October 1996.

Contrasting styles of reservoir heterogeneity in transgressive versus highstand systems tracts, Albian carbonate ramp, Pecos River Canyon: presented at Carbonate Reservoir Characterization Research Laboratory Annual Review Meeting: Austin, October 1996.

Application of high-resolution sequence stratigraphic concepts to reservoir characterization: presented at Amoco Production Research Laboratory, Austin, September 1996.

New technological advances in geosciences: presented to Mobil Producing E&P, Annual Technology Review, Midland, Texas, August 1996.

Cretaceous reservoir-scale facies architecture within a sequence stratigraphic framework: presented to Exxon Production Research Company, July 1996.

Cyclic stratigraphy of the Guadalupian section, Permian Basin, West Texas and New Mexico: presented to Cyclostratigraphy Research Group, 1996 annual American Association of Petroleum Geologists convention, San Diego, May 1996.

Ellenburger karst analogs for lower Paleozoic karst reservoirs of the former CIS: presented to Mobil Producing E&P, Dallas, January 1996.

Cretaceous outcrop analogs for Albian reservoirs of the western Atlantic: presented to Mobil Producing E&P, Dallas, January 1996.

Compartmentalization: presented at Woodlands Conference, American Association of Petroleum Geologists International Meeting (with F. J. Lucia), , Vienna, 1996.

Sequence stratigraphy of Cretaceous carbonate ramp reservoir analogs: presented to Dhahran Geological Society, Dhahran, Saudi Arabia, 1996.

Carbonate stratigraphic research: evolution and future directions: presented to the Wilson Symposium, Midland, Texas, 1995.

Outcrop and subsurface sequence stratigraphy of Guadalupian-age carbonate reservoirs, Permian Basin: presented to TOTAL and Shell Canada, Austin, Texas, 1995.

Application of high-frequency sequence stratigraphy to exploration and exploitation of carbonate reservoirs: presented to Amoco, Houston, Texas, 1995.

Future directions in the application of high-frequency sequence stratigraphy of carbonate reservoirs: presented to ARCO International, Austin, Texas, 1995.

Example of greenhouse carbonate platform, Albian of Pecos River Canyon: presented to The University of Texas at Austin, Department of Geological Sciences, Soft Rock Seminar, Austin, Texas, 1995.

Carbonate depositional systems: presented to The University of Texas at Austin, Department of Geological Sciences (Geology 391), Austin, Texas, 1995.

High-frequency stratigraphic analysis of mixed siliciclastic/carbonate platform, Queen Formation, Guadalupe Mountains: presented to The University of Texas at Austin, Department of Geological Sciences (Geology 391), Austin, Texas, 1995.

Insights for understanding architecture of Cretaceous ramp reservoirs: the Albian of the Pecos River Canyon: presented to Saudi Aramco, Dhahran, Saudi Arabia, 1995.

Sequence stratigraphy and reservoir analog setting of Cretaceous (Albian) carbonate ramp, Pecos River, West Texas: implications for Cretaceous reservoirs of Oman: presented to Oman Petroleum Development, Muscat, Oman, 1995.

San Andres reservoirs of the Permian Basin: presented to Pogo Exploration, Austin, Texas, 1995.

Risk assessment in carbonate reservoir development and exploration: presented to Unocal, Houston, Texas, 1995.

### Short Courses

AAPG Field VR Seminar: presented to American Association of Petroleum Geologists, 2003.

The role of outcrop analogs for taking reservoir characterization to the next level in the Permian Basin: Short Course Section: Integrated Sedimentology and Stratigraphy on Reservoir Characterization and Field Management Strategies, SEPM, Midland, Texas, August 30, 2000.

Carbonate sequence stratigraphy and reservoir characterization: SEPM Short Course (co-instructed with S. W. Tinker): offered during San Antonio AAPG annual meeting, 1999.

Carbonate sequence stratigraphy and reservoir characterization: SEPM Short Course (co-instructed with S. W. Tinker): Dallas AAPG annual meeting, 1996.

Co-lecturer of short course, Milankovitch sea-level changes, cycles, and reservoirs on carbonate platforms in greenhouse and icehouse worlds: presented to SEPM (Society for Sedimentary Geology) Annual Meeting, 1995.

Impact of Advanced Geological Characterization Studies on Ellenburger Reserve Growth: Current Activities and Future Directions: presented in the continuing education seminar "Strategies for Advanced Oil Recovery in the Permian Basin: Targeting the Remaining Resources, 1992.

High-frequency sequences and cycle stratigraphy for description of Clearfork, San Andres, and Grayburg carbonate reservoirs: short course: presented (with Stephen C. Ruppel) to the Permian Basin Graduate Center, 1992.

Recognition and correlation of high-frequency cyclicity in mixed clastic-carbonate sequences: short course: presented (with Stephen C. Ruppel) to the Permian Basin Graduate Center, 1992.

#### University Teaching

Carbonate sequence stratigraphy—series of three lectures for Geology 380N (W. L. Fisher): presented to Sequence Stratigraphy class, Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, Fall 2002.

Carbonate sequence stratigraphy: presented as a series of 3 lectures, The University of Texas at Austin, Department of Geological Sciences, Geology 380N, Sequence Stratigraphy, Austin, Texas, 2002.

#### Field Trips

Zahm, C., Phelps, R., Garcia-Fresca, B., Bellian, J. A., Kerans, C., El Azzi, J. A., and Janson, X., 2008, Cretaceous, Ordovician, and Permian reservoir heterogeneities: The University of Texas at Austin, Bureau of Economic Geology RCRL Field Trip Guidebook, 74 p.

Kerans, Charles, Bellian, J. A., Phelps, R. M., and Zahm, C., 2007, Cretaceous reservoir heterogeneity styles: facies to fractures: The University of Texas at Austin, Bureau of Economic Geology RCRL Field Trip Guidebook, 135 p.

Lucia, Jerry, Kerans, Charlie, and Loucks, Robert, 2004, Collapse Breccia Field Trip: Ordovician El Paso and Montoya Groups, Southern Franklin Mountains, El Paso, Texas: The University of Texas at Austin, Bureau of Economic Geology Field Trip Guidebook for Hedberg Research Conference, unpaginated [21 p.].

Janson, Xavier, Kerans, Charles, and Bellian, Jerry, 2004, Carboniferous and Ordovician digital outcrop studies: The University of Texas at Austin, Bureau of Economic Geology, RCRL Laboratory Field Trip Guidebook, 86 p.

Janson, Xavier, Kerans, Charles, Bellian, J. A., and Playton, T. E., 2003, 3D modeling of mixed siliciclastic-carbonate cycles in the Upper Pennsylvanian Holder Formation, Dry Canyon area, Oro Grande Basin: The University of Texas at Austin, Bureau of Economic Geology, RCRL Laboratory Field Trip Guidebook, 46 p.

Leader, Cretaceous rudist buildup, Pipe Creek, Texas: Gulf Coast Association of Geological, October 2004.

Leader, UT Austin Field Trip: Cretaceous Rudist Reefs of Pipe Creek Area: AAPG Student Chapter, Lake Medina, South Texas, November 2003.

Leader, STGS Pipe Creek Field Trip: South Texas Geological Society and Gulf Coast Section SEPM, Lake Medina, South Texas, November 2003.

Leader, STGS Pipe Creek Field Trip: South Texas Geological Society and Gulf Coast Section SEPM, Lake Medina, South Texas, April 2003.

Leader, Geologic setting of Wolfcampian carbonates, Apache Canyon: Permian Basin Section, SEPM (Society for Sedimentary Geology), Annual Field Trip, March 2001.

Field Trip Leader, Painted Canyon Window: Tide-dominated foreshore-shoreface rudist grainstones and bafflestones; Albian 10 HST: Carbonate Reservoir Characterization Research Laboratory annual meeting, October 1996.

San Andres Reservoir Facies and Interwell-Scale Heterogeneity: field trip for Industrial Associates review meeting, Carlsbad. Also for Texaco, Inc., Marathon, ARCO, and AGIP, May 1989.

Paleozoic Buildups and Associated Facies of the Llano Uplift, Central Texas: Austin Geological Society, Austin, Texas, April 1988.

Paleozoic Buildups and Associated Facies of the Llano Uplift, Central Texas: Austin Geological Society, Society of Economic Paleontologists and Mineralogists Annual Midyear meeting, Austin, Texas, 1988.

### Continuing Education-Short Courses

Carbonate Sequence Stratigraphy and Reservoir Characterization: Concepts and Application: Southwest Section, AAPG Continuing Education Series, Abilene, Texas, November 2003

Carbonate Sequence Stratigraphy: Outcrop and Subsurface Seminar: AAPG Field Seminar, Carlsbad and Cloudcroft, New Mexico, May 2003

Sequence Stratigraphy and Reservoir Styles in Cretaceous Carbonates: ExxonMobil, Del Rio, Texas, March 2003

### Miscellaneous Activities of a Professional Nature

Jackson School: Four lectures for Sequence Stratigraphy (GEO 380N), W. L. Fisher

Jackson School: Helped coordinate, teach five lectures and one lab for 383M, Carbonate and Evaporite Petrography

2003 RCRL program research goals, coauthored with Lucia, Bellian, submitted

Review of Arab D Reservoir Geologic Characterization, Ghawar Field, Saudi Arabia: Present Status and Future Directions: submitted to Saudi Aramco for \$20K, approved, finished

Collection of ILRIS data for Saudi Outcrop studies: submitted to Aramco for \$15K, in progress

Cogdell Reservoir Characterization Project: submitted to OXY Permian for \$50K, approved

Integrated Reservoir Characterization of the Poza Rica Field within a Sequence Stratigraphic Framework: submitted to Pemex, approved in two phases for approximately \$1.2 million

DOE PRIME Proposal on Superhigh resolution seismic imaging of realistic 3D geologic models, (Kerans, PI, co-authored by Sergey Fomel)

Student Name	Graduate Committee Report for			Committee position	
	Degree	Semester	KERANS CHARLES		
ACONCHA, ENZO SENER	MSc	2008	A		1
AISNER, RACHEL E.	MSc	2010	A		2
AL-MUHAIDIB, ABDULAZIZ M.	MSc	2008	M		
AL-NAZGHAH, MAHMOUD HASAN	MSc	2011	A		3
ALTOBI, YOUNIS KHAMIS	PhD	2007	M		
BEALL, JENNIFER LYNN	MSc	1999	M		

BELLIAN, JEROME ANTHONY	PhD	2006	A	1
BENS, ASHLEY ELIZABETH	MSc	2011	M	
CABER, RANDY HOWARD JR.	MSc	20102	M	
CLAYTON, JASON LARS	MSc	20112	A	4
CRUZ, WAGNER MAIA	PhD	19979	M	
DAI, JIANCHUN	PhD	20002	M	
DAVIS, MATTHEW HENRY	MSc	20052	M	
DUNN, ELIZABETH MARGARET	MSc	20096	M	
EL-AZZI, JOSEPH ASSAAD	MSc	20102	A	5
ELDAM, NABIEL S	MSc	20122	A	6
ERGENE, SUZAN MUGE	MSc	20142	M	
FITCHEN, WILLIAM MILLS	PhD	19926	M	
FOSTER, TINA RAYNA	MSc	20032	M	
FROST, EDMUND LOCKE III	PhD	20079	A	2
FRY, KATHRYN O'ROURKE	MSc	IP	M	
GARCIA-FRESCA, BEATRIZ	PhD	20099	M	
GOMEZ, LEONEL AUGUSTO	PhD	20072	M	
GRYGER, SEAN MICHAEL	MSc	20109	M	
HARMAN, CHARLES AVERILL	MSc	20116	A	7
HASSAN, AHMED ABED	PhD	IP	A	3
HE, YAWEN	PhD	IP	A	4
HELBERT, DANA KRISTIN	MSc	2010	A	8
HIEBERT, SAMUEL FRANZ	MSc	2013	A	9
HOFFMAN, CORY LANE	PhD	2000	M	
HULL, DAVID CHRISTOPHER	MSc	2011	M	
HURD, GREGORY SAMUEL	PhD	IP	B	5
ISDIKEN, BATUR	MSc	2013	M	
JONES, NATHANIEL BAIRD	MSc	2012	A	10
KLOSS, TRAVIS T.	MSc	2011	A	11
KOPRIVA, BRYANT TIMOTHY	MSc	2012	M	
LUNDQUIST, JASON JAMES	PhD	2000	M	
MATHISEN, MAREN GABRIELLA	N/A	N/A	A	12
MONROY SANTIAGO, FAUSTINO	PhD	2012	M	
MOSCARDELLI, LORENA GINA	PhD	2007	M	
NANCE, HARDIE SEAY III	PhD	2010	M	
PARKER, JOHN ALEXANDRE	MSc	2013	A	13
PEQUENO, MONICA ALVES	PhD	2009	M	
PHELPS, RYAN MATTHEW	PhD	2011	A	14
PHELPS, RYAN MATTHEW	MSc	2006	A	6
PLAYTON, TED ERIC	PhD	2008	A	15
PLAYTON, TED ERIC	MSc	2003	B	7
POMMER, MAXWELL ELLIOTT	MSc	2014	M	
RUSH, JASON WINDROW	MSc	2001	B	16
SADLER, CARI ELIZABETH	MA	2010	A	
SANCHEZ, CARLA MARIA	PhD	2011	M	

SCOTT, SAMUEL ZEPHYR	MSc	2007	A	17
SIMON, REBEKAH ELIZABETH	N/A	N/A	A	18
SINGH, KADIRA ANALISA	MSc	2010	M	
SMITH, GORDON ALLEN JR.	MSc	2013	M	
TROUTMAN, TONY JOHN	MSc	2004	B	19
WEST, LOGAN MITCHELL	MSc	2016	M	
WOOD, STEPHANIE GRACE	MSc	2013	M	
ZAHM, LAURA CUTRIGHT	MSc	1997	B	20

NOTES

20 MSc complete  
4 MSc in progress

Committee Position: M = Member, B = Co-Chair, A = Chair or on-campus co-chair

4 PhD complete  
4 PhD in progress

Member, M.S. Thesis Committee, Bruno Courme, The University of Texas at Austin, Austin, Texas, expected completion, 2000

Member, Thesis Committee, Laura C. Zahm, Depositional model and sequence stratigraphic framework for Upper Albian/Lower Cenomanian carbonate ramp, Western Comanche Shelf, Texas: The University of Texas at Austin, Austin, Texas, 1997

Member, Dissertation Committee, Wagoner Cruz, Study of Albian carbonate analogs: Cedar Park Quarry, Texas, USA, and Santos Basin reservoirs, southeast offshore Brazil: The University of Texas at Austin, Austin, Texas, 1997

Member, Ph.D. Dissertation Committee, Scott W. Tinker, The shelf-to-slope sequence stratigraphic framework of the late Guadalupian strata, McKittrick Canyon, New Mexico and Texas: an integrated sequence and chemical stratigraphic approach: University of Colorado at Boulder, Boulder, Colorado, expected completion, 1996

Member, Thesis Committee, Malcolm Ferris, The University of Texas at Austin, Austin, Texas, expected completion, 1993

Member, M.S. Thesis Committee, William Fitchen, Sedimentology and sequence stratigraphy of the upper San Andres Formation, Broke-Off Mountains, southeastern New Mexico: The University of Texas at Austin, Austin, Texas, 1992

Member, Ph.D. Dissertation Committee, Bruce Ward, Stratigraphy and diagenesis of Napier Range carbonate platforms, Canning Basin, Western Australia: State University of New York at Stony Brook, New York, New York, 1992

Member, Thesis Committee, Mark Andreason, Coastal evaporite environments of the Permian Yates inner shelf and the effects of penecontemporaneous sulfate dissolution, Central Basin Platform, Ward County, Texas: The University of Texas at Austin, Austin, Texas, 1990

Member, Ph.D. Dissertation Committee, Julie A. Kupecz, Petrographic and geochemical characterization of the Lower Ordovician Ellenburger Group, West Texas: The University of Texas at Austin, Austin, Texas, 1989