Michael R. Hudec

Professional Summary

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Academic Background

B.A. Geology, Amherst College, 1983
M.S. Geology, University of Southern California, 1987
Ph.D. Geology, University of Wyoming, 1990

Areas of Expertise

A. Salt tectonics.
B. Structural geology.
C. Cross-section restoration and balancing.
D. Seismic interpretation.
E. 3-D computer modeling.

Professional Work Experience

A. Present Position: Senior Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (August 2000 - Present).

   Co-Principal Investigator of the Applied Geodynamics Lab Industrial Associates program studying salt tectonics. Responsibilities shared with Martin Jackson: establishing AGL research directions, administrative decision-making, visits to supporting companies. Sole responsibilities: computer issues, slide set distribution, annual meeting logistics, website maintenance, intra-team technical review meetings. Research responsibilities: developing guidelines for the interpretation and restoration of salt structures and techniques for understanding sediment geometries and hydrocarbon traps adjacent to salt structures.

B. Assistant Professor, Baylor University, Waco, TX (September 1997 - August 2000).

   Responsible for teaching graduate and undergraduate classes, advising graduate students, and developing and administering a research program in structural geology. Full member of graduate faculty.

C. Research Scientist, Exxon Production Research, Houston, TX (October 1989 - September 1997).

   Duties included research in structural geology, short-term research application assignments for Exxon exploration and production affiliates, and teaching in a variety of Exxon internal schools.

Professional Societies

American Association of Petroleum Geologists

Geological Society of America
Gulf Coast Section, SEPM

Awards and Honorary Societies

Award of Excellence, “Top 10” Poster Presentation at AAPG Annual Convention, Is There a Subsalt Foldbelt in the Central U.S. Gulf of Mexico?, 2010

Award of Excellence, “Top 10” Poster Presentation at AAPG Annual Convention, Deformation Styles and Linkage of Salt Walls during Oblique Shortening, 2009

Publication Award, Bureau of Economic Geology (exemplary publication of scientific or economic impact), 2008

Jules Braunstein Memorial Award for best poster at AAPG Annual Convention, Dismembered Sutures Formed during Asymmetric Salt-Sheet Collision, 2008

A. I. Levorsen Award as co-author of Best Paper presented at Gulf Coast Section, AAPG Annual Meeting, Importance of Allochthonous Salt in Texas State Waters: Paleo-Canopy Presence and New Exploration Paradigms, 2007

American Association of Petroleum Geologists George C. Matson Award for "A Compressional Origin for Minibasins near the Sigsbee Escarpment, Gulf of Mexico", 2005 - 2006

Outstanding Instructor Award, Exxon Production Research Company, 1993

National Science Foundation Graduate Fellowship, 1988 - 1989

National Science Foundation Graduate Fellowship, 1987 - 1988

National Science Foundation Graduate Fellowship, 1986 - 1987

University of Southern California All-University Merit Fellowship, 1985 - 1986

University of Southern California All-University Merit Fellowship, 1984 - 1985

Award of Excellence, “Top 10” Poster Presentation at AAPG Annual Convention, Canopy Evolution: Deformation Processes and Subsidence Patterns

Committee Responsibilities and Professional Activities

Session Chair, Salt, Sub-Salt and Pre-Salt Tectonics, Models and Hydrocarbon Traps, 2010 American Association of Petroleum Geologists Annual Convention, New OrleansApril, 2010

Session Chair, Salt Basins of the World: Broadening our Understanding of Salt Tectonics, 2009 Annual American Association of Petroleum Geologists Convention, Denver, Colorado June, 2009

Chair, Promotions Advisory Committee, Bureau of Economic Geology, 2008 - 2009

Member, Appointments Committee, Jackson School of Geosciences, 2008 - 2010

Session Chair, New Insights in Allochthonous Salt Tectonics, 2008 American Association of Petroleum Geologists Annual Convention, San AntonioApril, 2008

Member, Promotions Advisory Committee, Bureau of Economic Geology, 2007 - 2009

Member, Endowment Committee, John A. and Katherine G. Jackson School of Geosciences, The University of Texas at Austin, 2005 - 2006

Member, Initiative Review Committee, John A. and Katherine G. Jackson School of Geosciences, The University of Texas at Austin, 2005

Chair, Associate Director for Environmental Research Search Committee, Bureau of Economic Geology, 2003 - 2004

Leader, Salt and Extensional Tectonics in the Paradox Basin, Field Seminar, American Association of Petroleum Geologists, Moab, Utah, 2003

Member, Information Distribution System Task Force, Bureau of Economic Geology, Austin, Texas, 2002

Member, Program Advisory Committee, Gulf Coast Section–Society of Economic Paleontologists and Mineralogists 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, Houston, Texas, 2002 - 2004

Publications

Books, Manuals

Travis, C. J., Vendeville, B. C., Harrison, H., Peel, Frank, Hudec, M. R., and Perkins, B. F., eds., 1995, Salt, sediment, and hydrocarbons: Society of Economic Paleontologists and Mineralogists Foundation, Sixteenth Annual Gulf Coast Section Research Conference, 308 p.

Reports, Monographs, Brochures, Pamphlets, Bulletins

Hudec, M. R., 2003, Quick-look chart for restoration of salt structures in cross section: The University of Texas at Austin, Bureau of Economic Geology poster + 10-p. booklet.

Jackson, M. P. A., Schultz-Ela, D., Hudec, M. R., Watson, I. A., and Porter, M. L., 2001, Structure and evolution of Upheaval Dome: pinched-off salt diapir or meteoritic impact structure?: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 262, 93 p.

Guidebooks

Hudec, M. R., and Watson, I. A., 1998, Salt and extensional structures in the northeastern Paradox Basin, Utah: American Association of Petroleum Geologists American Association of Petroleum Geologists Annual Meeting Postmeeting Field Trip Guidebook, 78 p.

Chapters/Sections

Wehr, F. L., Fairchild, L. H., Hudec, M. R., Shafto, R. K., Shea, W. T., and White, J. P., 2000, Chapter 10. Fault seal: contrasts between the exploration and production problem, *in* Mello, M. R., and Katz, B. J., eds., Petroleum systems of South Atlantic margins: American Association of Petroleum Geologists Memoir, v 73, p. 121–132.

Hudec, M. R., 1995, The Onion Creek salt diapir: an exposed diapir fall structure in the Paradox basin, Utah, *in* Travis, C. J., Harrison H., Hudec, M. R., Vendeville, B. C., Peel, F. J., and Perkins, B. F, eds., Salt, sediment, and hydrocarbons: Gulf Coast Section, Society of Economic Paleontologists and Mineralogists Foundation, Sixteenth Annual Research Conference, p. 125–134.

Articles

Peer Reviewed

Nikolinakou, M. A., Luo, Gang, Hudec, M. R., and Flemings, P. B., 2011, Geomechanical modeling of stresses and pore pressures in mudstones adjacent to salt bodies, *in* Proceedings of the 45th U.S. Rock Mechanics/Geomechanics Symposium, San Francisco, June 26–29, 8 p., CD-ROM.

Jackson, M. P. A., Hudec, M. R., and Dooley, T. P., 2010, Some emerging concepts in salt tectonics in the deepwater Gulf of Mexico: intrusive plumes, canopy-margin thrusts, minibasin triggers and allochthonous fragments: The Geological Society, London, Petroleum Geology Conference Series, v. 7, p. 899– 912. doi: 10.1144/0070899

McDonnell, Angela, Jackson, M. P. A., and Hudec, M. R., 2010, Origin of transverse folds in an extensional growth-fault setting: evidence from an extensive seismic volume in the western Gulf of Mexico: Marine and Petroleum Geology, v. 27, p. 1494–1507

McDonnell, Angela, Hudec, M. R., and Jackson, M. P. A., 2009, Distinguishing salt welds from shale detachments on the inner Texas shelf, western Gulf of Mexico: Basin Research, v. 21, p. 47–59.

Dooley, T. P., Jackson, M. P. A., and Hudec, M. R., 2009, Inflation and deflation of deeply buried salt stocks during lateral shortening: Journal of Structural Geology, v. 31, no. 6, p. 582–600.

Hudec, M. R., and Jackson, M. P. A., 2009, Interaction between spreading salt canopies and their peripheral thrust systems: Journal of Structural Geology, v. 31, p. 1114–1129.

Hudec, M. R., Jackson, M. P. A., and Schultz-Ela, D., 2009, The paradox of minibasin subsidence into salt: clues to the evolution of crustal basins: Geological Society of America Bulletin, v. 121, no. 1/2, p. 201–221; doi: 10.1130/B26275.1.

Jackson, M. P. A., Hudec, M. R., Jennette, D. C., and Kilby, R. E., 2008, Evolution of the Cretaceous Astrid thrust belt in the ultradeep-water lower Congo Basin, Gabon: AAPG Bulletin, v. 92, p. 487–511 (also cover photograph).

Hudec, M. R., and Jackson, M. P. A., 2007, Terra infirma: understanding salt tectonics: Earth-Science Reviews, v. 82, p. 1–24.

Dooley, T. P., Jackson, M. P. A., and Hudec, M. R., 2007, Initiation and growth of salt-based thrustbelts on passive margins: results from physical models: Basin Research, v. 19, p. 165–177.

Hudec, M. R., and Jackson, M. P. A., 2006, Advance of allochthonous salt sheets in passive margins and orogens: AAPG Bulletin, v. 90, no. 10, p. 1535–1564. Also in Rowan, M. G., compiler, 2006, Getting started in salt tectonics: a compendium of influential papers, AAPG/Datapages, Getting Started Series No. 6, CD-ROM.

Prochnow, S. J., Atchley, S. C., Boucher, T. E., Nordt, L. C., and Hudec, M. R., 2006, The influence of salt withdrawal subsidence on paleosol maturity and cyclic fluvial deposition in the Upper Triassic Chinle Formation: Castle Valley, Utah: Sedimentology, v. 53, p. 1319–1345.

Prochnow, S. J., Nordt, L. C., Atchley, S. C., and Hudec, M. R., 2006, Multi-proxy paleosol evidence for middle and late Triassic climate trends in eastern Utah: Palaeogeography, Palaeoclimatology, Palaeoecolology, v. 232, p. 53–72.

Canérot, Joseph, Hudec, M. R., and Rockenbauch, Konrad, 2005, Mesozoic diapirism in the Pyrenean orogen: salt tectonics on a transform plate boundary: AAPG Bulletin, v. 89, no. 2, p. 211–229.

Jackson, M. P. A., and Hudec, M. R., 2005, Stratigraphic record of translation down ramps in a passive-margin salt detachment: Journal of Structural Geology, v. 27, p. 889–911.

Prochnow, S. J., Nordt, L. C., Atchley, S. C., Hudec, Michael, and Boucher, T. E., 2005, Triassic paleosol catenas associated with a salt-withdrawal minibasin in southeastern Utah, U.S.A.: Rocky Mountain Geology, v. 40, no. 1, p. 25–49.

Jackson, M. P. A., Hudec, M. R., and Hegarty, K. A., 2005, The great West African Tertiary coastal uplift: fact or fiction? A perspective from the Angolan divergent margin: Tectonics, v. 24, TC6014, doi:10.1029/2005TC001836.

Hudec, M. R., and Jackson, M. P. A., 2004, Regional restoration across the Kwanza Basin, Angola: salt tectonics triggered by repeated uplift of a metastable passive margin: AAPG Bulletin, v. 88, no. 7, p. 971–990.

Jackson, M. P. A., Warin, O. N., Woad, G. M., and Hudec, M. R., 2003, Neoproterozoic allochthonous salt tectonics during the Lufilian orogeny in the Katangan Copperbelt, central Africa: Geological Society of America Bulletin, v. 115, no. 3, p. 314–330.

Hudec, M. R., and Jackson, M. P. A., 2002, Structural segmentation, inversion, and salt tectonics on a passive margin: evolution of the Inner Kwanza Basin, Angola: Geological Society of America Bulletin, v. 114, no. 10, p. 1222–1244.

Jackson, M. P. A., Schultz-Ela, D., Hudec, M. R., Watson, I. A., and Porter, M. L., 1998, Structure and evolution of Upheaval Dome: a pinched-off salt diapir: Geological Society of America Bulletin, v. 110, no. 12, p. 1547–1573.

Fletcher, R. C., Hudec, M. R., and Watson, I. A., 1995, Salt glacier and composite sediment-salt glacier models for the emplacement and early burial of allochthonous salt sheets, *in* Jackson, M. P. A., Roberts, D. G., and Snelson, S., eds., Salt tectonics: a global perspective: American Association of Petroleum Geologists, Memoir 65, p. 77–108.

Hudec, M. R., 1992, Mesozoic structural and metamorphic history of the central Ruby Mountains metamorphic core complex, Nevada: Geological Society of America Bulletin, v. 104, p. 1086–1100.

Hudec, M. R., and Davis, G. A., 1989, Out-of-sequence thrust faulting and duplex formation in the Lewis thrust system, Spot Mountain, southeastern Glacier National Park, Montana: Canadian Journal of Earth Sciences, v. 26, p. 2356–2364.

Non-Peer-Reviewed

Hudec, M. R., 2009, Salt, *in* Laubach, S. E., and Tinker, S. W., eds., 2009, Earth's art: celebrating the Centennial of the Bureau of Economic Geology, 1909–2009: The University of Texas at Austin, Bureau of Economic Geology, p. 54–55.

Montoya, P., Tatham, R., Fisher, W., Steel, R., and Hudec, M., 2006, Definition of depositional geological elements in deep-water minibasins of the Gulf of Mexico using spectral decomposition in depth domain, *in* EAGE 68th Conference and Exhibition, Paper Number C008, Session: Best of SEG, Vienna, Austria, June 12–15, p. 480–485.

Montoya, Patricia, Tatham, Robert, Fisher, William, Steel, Ronald, and Hudec, Michael, 2005, Definition of depositional geological elements in deep-water minibasins of the Gulf of Mexico using spectral decomposition in depth domain, *in* SEG/Houston 2005 Annual Meeting: Society of Exploration Geophysicists, p. 481–484.

Hudec, M. R., and Jackson, M. P. A., 2004, Salt tectonics in the new millennium: navigating the information flood in Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, p. 1–13.

Hudec, M. R., 2004, Salt intrusion: time for a comeback? in Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, p. 119–132.

Jackson, M. P. A., and Hudec, M. R., 2004, A new mechanism for advance of allochthonous salt sheets, *in* Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, p. 220–242.

Jackson, M. P. A., Hudec, M. R., and Jennette, D. C., 2004, Insights from a gravity-driven linked system in deep-water lower Congo Basin, Gabon in Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, p. 735–752.

Hudec, M. R., and Jackson, M. P. A., 2003, Effects of basement uplift on passive-margin salt basins: new insights from the Kwanza Basin, Angola, *in* Eighth International Congress of The Brazilian Geophysical Society, p. 1–4.

Abstracts

Dooley, T. P., Jackson, M. P. A., and Hudec, M. R., 2011, Canopy evolution: deformation processes and subsidence patterns (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 47.

Jackson, M. P. A., Dooley, Tim, Hudec, M. R., and McDonnell, Angela, 2011, The pillow fold belt: a key subsalt structural province in the northern Gulf of Mexico (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 91.

Luo, Gang, Nikolinakou, M. A., Flemings, P. B., and Hudec, M. R., 2011, Geomechanical modeling of stresses adjacent to salt bodies: uncoupled models (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 115.

Nikolinakou, M. A., Luo, Gang, Hudec, M. R., and Flemings, P. B., 2011, Geomechanical modeling of stresses adjacent to salt bodies: poro-elasto-plasticity and coupled overpressures (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 131– 132.

Tomasso, M., Wright, W. R., Costa, F. O., Sant'Anna, M. V., Machado, E. C. V., Hudec, M. R., Jackson, M. P. A., and Kerans, C., 2010, Linking halokinetic structure to the pre-evaporite structural regime, evaporite facies and the Albian carbonate platform succession-Campos Basin, Brazil (abs.), *in* Salt tectonics, sediments and prospectivity, meeting held at Burlington House, London, January 20–22: The Geological Society's Petroleum Group and SEPM.

Dooley, Tim, Jackson, M. P. A., and Hudec, M. R., 2010, Roof breakup and extrusion of shallow salt stocks during lateral shortening (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition, v. 19, p. 61.

Hudec, M. R., and Peel, Frank, 2010, Influence of basement structure on evolution of the deepwater gulf of Mexico (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition, v. 19, p. 116–117.

Hudec, M. R., 2010, Is there a subsalt foldbelt in the central U.S. Gulf of Mexico? (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition, v. 19, p. 117.

Dooley, Tim, Jackson, M. P. A., and Hudec, M. R., 2010, Roof breakup and extrusion of shallow salt stocks during lateral shortening (abs.), *in* Salt tectonics, sediments and prospectivity, meeting held at Burlington House, London, January 20–22: The Geological Society's Petroleum Group and SEPM.

Hudec, M. R., and Peel, Frank, 2010, Influence of deep Louann structure on evolution of the deepwater Gulf of Mexico (abs.), *in* Salt Tectonics, Sediments and Prospectivity: Research Conference: Geological Society, London, January 20–22, p. 21.

Hudec, M. R., and Peel, Frank, 2010, Influence of basement structure on evolution of the deepwater Gulf of Mexico (abs.), *in* AAPG-HGS Conference on Deepwater and Ultra Deepwater Reservoirs in the Gulf of Mexico, Houston, March 16–17.

Hudec, M. R., 2009, Episodic advance of the Sigsbee Salt Canopy, deepwater Gulf of Mexico (abs.): New Orleans Geological Society Log, v. 49, no. 8, p. 7.

Hudec, M. R., 2009, The paradox of minibasin subsidence into salt (abs). Houston Geological Society Bulletin, v. 51, no. 7, p. 33.

Tomasso, Mark, Wright, Wayne, Costa, F. O., Araujo, M. B., Sant'Anna, M., Machado, E. C. V., Hudec, M. R., and Jackson, M. P. A., 2009, The relationship of salt-tectonic structures in pre-evaporite depositional and structural regimes and evaporite facies in the Campos Basin, offshore Brazil (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 214.

Dooley, Tim, Jackson, M. P. A., and Hudec, M. R., 2009, Deformation styles and linkage of salt walls during oblique shortening (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 57.

Hudec, M. R., and Jackson, M. P. A., 2009, Criteria for interpreting open feeders beneath allochthonous salt sheets (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 100.

Norton, Ian, Jackson, M. P. A., and Hudec, M. R., 2009, Tectonics of passive margin salt basins: crustal structure of the Gulf of Mexico and south Atlantic during salt deposition (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 155.

Jackson, M. P. A., Hudec, M. R., and Dooley, T., 2009, Unfolding concepts in salt tectonics: intrusive plumes, salt-sheet thrusts, minibasin triggers, and exotic wanderers (abs.): 7th Petroleum Geology Conference, Geological Society of London and the Energy Institute, London, United Kingdom, Program and Abstracts, p. 52.

Jackson, M. P. A., and Hudec, M. R., 2009, Interplay of basement tectonics, salt tectonics, and sedimentation in the Kwanza Basin, Angola (abs.): AAPG International Conference & Exhibition, Cape Town, South Africa, Abstracts (unpaginated).

Tomasso, Mark, Wright, W. R., Costa, F. O., Araújo, A. D., Sant́ Anna, M. V., Machado, E. C. V., Hudec, M. R., and Jackson, M. P. A., 2008, Diversity in salt-tectonic structures and their relationships to evaporite facies and pre-evaporite depositional and structural regimes in the Campos Basin, offshore Brazil (abs.): American Association of Petroleum Geologists Annual International Conference and Exhibition Abstracts Volume.

Dooley, Tim, Jackson, M. P. A., Cartwright, J. A., and Hudec, M. R., 2008, Modeling of strain partitioning during gravity-driven deformation of multilayered evaporites and overburden (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 46.

Dooley, Tim, Jackson, M. P. A., and Hudec, M. R., 2008, Superposed deformation and structural control of salt breakout in radially expanding canopies (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 46.

Dooley, Tim, Hudec, M. R., and Jackson, M. P. A., 2008, Dismembered sutures formed during asymmetric salt-sheet collision (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 46.

Heyn, Teunis, Jackson, Martin, Hudec, M. R., Hart, B. H., Propes, R. L., Reasnor, M. D., Harrison, H. L., Vinson, Graham, and Bunting, W. D., 2008, Accretionary-wedge shortening caused by advance of the Sigsbee Escarpment, Alaminos Canyon, Gulf of Mexico (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 82, 89–90.

Hudec, M. R., 2008, Episodic advance of the Sigsbee salt canopy, deepwater Gulf of Mexico (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 94.

Hudec, M. R., 2008, Diachronous growth of fold limits from the Mad Dog Anticline: implications for base-salt deformation in the Atwater Fold Belt (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 94.

Jackson, M. P. A., Hudec, M. R., and Heyn, Teunis, 2008, How and where is the Sigsbee Escarpment advancing? (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 97.

Jackson, M. P. A., and Hudec, M. R., 2008, Interplay of basement tectonics, salt tectonics, and sedimentation in the Kwanza Basin, Angola (abs.), *in* AAPG International Conference and Exhibition, Cape Town, South Africa, October 26–29.

McDonnell, Angela, Hudec, M. R., and Jackson, M. P. A., 2007, Importance of allochthonous salt in Texas State Waters: paleo-canapy presence and new exploration paradigms (ext. abs.): Gulf Coast Association of Geological Societies Transactions, v. 57, p. 591–594.

Montoya, Patricia, and Hudec, M. R., 2007, Active salt tectonics and its effect on the internal architecture and connectivity between minibasins near the Sigsbee Escarpment, Gulf of Mexico (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 16, p. 96.

Jackson, M. P. A., Dooley, T. P., and Hudec, M. R., 2006, Salt extrusion, roof dispersion, and deep intrusion of salt into and out of squeezed stocks (abs.), *in* 43rd Brazilian Geological Congress, September 3–8, Aracaju, Brazil, p. 91.

Dooley, T. P., Jackson, M. P. A., and Hudec, M. R., 2006, Allochthonous salt extrusion, roof dispersion, and intrusive import and export of salt in squeezed stocks (abs.): American Association of Petroleum Geologists Annual Convention, v. 15, p. 27.

Hudec, M. R., Jackson, M. P. A., and Schultz-Ela, D. D., 2006, Mechanics of the advance of buried salt sheets and implications for predicting subsalt pore pressures (abs.): American Association of Petroleum Geologists Annual Convention, v. 15, p. 50.

Hudec, M. R., Jackson, M. P. A., and Schultz-Ela, D. D., 2005, A compressional origin for minibasins near the Sigsbee Scarp, Gulf of Mexico (abs.): Houston Geological Society Bulletin, December, p. 23–24.

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Jackson, M. P. A., Hudec, M. R., and Jennette, D. C., 2005, Progressive effects of shortening superposed on extensional diapirs and faults in deep-water lower Congo Basin, Gabon (abs.), *in* Abstracts, International Conference on Theory and Application of Fault-Related Folding in Foreland Basins, June 25–July 4, China: Research Institute of Petroleum Exploration and Development and Petrochina, p. 85.

Hudec, M. R., Jackson, M. P. A., and Jennette, David, 2004, Influence of precursor salt structures on thrust faulting, deep-water Lower Congo Basin, Gabon (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A67.

Hudec, M. R., 2004, Salt intrusion: time for a comeback? (abs.), *in* Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference Program and Abstracts, p. 7.

Jackson, M. P. A., and Hudec, M. R., 2004, A new mechanism for advance of allochthonous salt sheets (abs.), *in* Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference Program and Abstracts, p. 11.

Hudec, M. R., and Jackson, M. P. A., 2004, Salt tectonics in the new millenium: navigating the information flood (abs.), *in* Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference Program and Abstracts, p. 1.

Jackson, M. P. A., Hudec, M. R., and Jennette, D. C., 2004, Insights from a gravity-driven linked system in deep-water lower Congo Basin, Gabon (abs.), *in* Post, P. J., Olson, D. L., Lyons, K. T., Palmes, S. L., Harrison, P. F., and Rosen, N. C., eds., Salt-sediment interactions and hydrocarbon prospectivity: concepts, applications, and case studies for the 21st century: 24th Annual GCSSEPM Foundation Bob F. Perkins Research Conference Program and Abstracts, p. 32.

Kilby, R. E., Jackson, M. P. A., and Hudec, M. R., 2004, Preliminary analysis of thrust kinematics in the lower Congo Basin, deepwater southern Gabon (abs.): Geological Society of America Abstracts with Programs: v. 36, no. 5, p. 505.

Chauvin, P. C., and Hudec, M. R., 2003, Structural style of a normal fault system above the Salt Valley salt wall, Paradox Basin, Utah (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 12, p. A29.

Hudec, M. R., and Jackson, M. P. A., 2003, Crestal fault patterns above turtle structures in the Lower Congo Basin, Gabon: the influence of trap timing (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 12, p. A81.

Jackson, M. P. A., Hudec, M. R., and Hegarty, K. A., 2003, The great West African Tertiary coastal uplift: fact or fiction? a perspective from the Kwanza Basin, Angola (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 12, p. A83.

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Thesis

Geology of a portion of the Lewis thrust plate north of Two Medicine Lake, Glacier National Park, Montana: Los Angeles, California, University of Southern California, M.S. thesis, 192 p., 1987.

Dissertation

The structural and thermal evolution of the central Ruby Mountains, Elko County, Nevada: Laramie, Wyoming, University of Wyoming, Ph.D. dissertation, 272 p., 1990.

Lecturing

AAPG Short Course

Deepwater salt tectonics: presented at AAPG Fall Education Conference, Houston, Texas, September 14–15, 2006.

Salt tectonics: presented at AAPG E&P Methods and Technologies School, Dallas, Texas, April 9, 2006.

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BEG Colloquia

Influence of basement structure on evolution of the deepwater Gulf of Mexico: presented at BEG technical seminar, Austin, Texas, October 2010.

A compressional origin for minibasins near the Sigsbee Scarp, Gulf of Mexico: presented at BEG technical seminar, Austin, Texas, September 2005.

Introducing "The Salt Mine": presented at BEG technical seminar, Austin, Texas, April 2002.

Corporate Schools, Research Seminars

Early history of the Gulf of Mexico Salt Basin: geologic evolution and implications: presented at CGGVeritas University, Houston, Texas, April 4, 2011.

Seismic Interpretation of allochthonous salt: part 1—top of salt: presented at CGGVeritas University, Houston, Texas, March 15, 2010.

Salt and plate tectonics in the deepwater South Atlantic and Gulf of Mexico: presented at Chevron Hydrocarbon Charge Workshop, Austin, Texas, March 31, 2009.

Mechanics of the advance of buried salt sheets and implications for predicting subsalt pore pressure: presented at GX Technology Research Conference, Houston, Texas, March 21, 2006.

Evolution of compressional minibasins: presented at BP, Sunbury, England, February 20, 2006.

Styles of active diapirism in offshore Mauritania: shortening vs. halokinesis: presented at BP, Sunbury, England, February 20, 2006.

Import and export of salt from squeezed stocks: presented at BP, Sunbury, England, February 20, 2006.

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The great West-African Tertiary coastal uplift: fact or fiction? A perspective from the Angoland divergent margin: presented at BP, Sunbury, England, February 20, 2006.

Far-traveled minibasins and the great Plio-Pleistocene salt surge, Green Canyon, Gulf of Mexico: presented at ExxonMobil, Houston, Texas, January 16, 2006.

Emplacement of allochthonous salt sheets in passive margins and orogens: presented at ExxonMobil, Houston, Texas, January 16, 2006.

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Diachronous growth of fold limbs on the Mad Dog Anticline: implications for base-salt deformation in the Atwater Fold Belt: presented at ExxonMobil, Houston, Texas, January 16, 2006.

Near-salt deformation: formation of subsalt disturbed zones during salt-sheet advance: presented at BP Salt Symposium, Houston, Texas, June 30, 2004.

Effects of basement uplift on passive-margin salt basins: new insights from the Kwanza Basin, Angola: Petrobras Exploration and Production, Rio de Janeiro, Brazil, September 16, 2003.

AGL technology transfer: the Salt Mine and the AGL Website: Petrobras Corporate University, Rio de Janeiro, Brazil, September 12, 2003.

Effects of basement uplift on passive-margin salt basins: new insights from the Kwanza Basin, Angola: Petrobras Corporate University, Rio de Janeiro, Brazil, September 12, 2003.

Estranged neighbors: independent tectonic evolution of the onshore and offshore Kwanza salt basins, Angola: Petrobras Corporate University, Rio de Janeiro, Brazil, September 12, 2003.

Effects of rift segmentation on salt tectonics, Kwanza Basin, Angola: Petrobras Corporate University, Rio de Janeiro, Brazil, September 12, 2003.

Lectures and Addresses

Influence of basement structure on the evolution of the deepwater Gulf of Mexico: presented at Marathon Oil, Houston, Texas, February 10, 2011.

Influence of basement structure on the evolution of the deepwater Gulf of Mexico: presented at Exxon, Houston, Texas, February 11, 2011.

Influence of basement structure on the evolution of the deepwater Gulf of Mexico: presented at Woodside, Houston, Texas, July 11, 2011.

An analysis of salt welding: presented to ConocoPhillips, Houston, Texas, May 12, 2010.

A proposed subsalt foldbelt beneath the outer shelf, central Gulf of Mexico: presented to Shell, Houston, Texas, July 13, 2010.

Pillow fold belts: recognition, modeling and a hypothesis for the northern Gulf of Mexico: presented to Shell, Houston, Texas, July 13, 2010.

Overview of the Kwanza Basin, Angola: presented to Shell, Houston, Texas, July 13, 2010.

Influence of basement structure on evolution of the deepwater Gulf of Mexico: presented to WesternGeco, Houston, Texas, May 13, 2010.

Architecture of salt-canopy systems: a preliminary report: presented to WesternGeco, Houston, Texas, May 13, 2010.

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Seismic interpretation of allochthonous salt: Part II—base of salt: presented to WesternGeco, Houston, Texas, May 13, 2010.

Early history of the Gulf of Mexico salt basin—part 2: implications: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 18, 2010.

Criteria for interpreting open salt-sheet feeders: presented to WesternGeco, Houston, Texas, May 13, 2010.

A proposed subsalt foldbelt beneath the outer shelf, central Gulf of Mexico: presented at Deep Shelf Gas Industrial Associates Meeting, Austin, Texas, April 29, 2010.

Early history of the Gulf of Mexico salt basin—part 1: geologic evolution: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 18, 2010.

Early history of the Gulf of Mexico salt basin—part 2: implications: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 18, 2010.

Godzilla vs. Bambi: modeling how salt sheets override salt stocks: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 19, 2010.

AGL technology transfer for 2010—salt-tectonics textbook, SEGY physical models and the final edition of The Salt Mine: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 19, 2010.

The geology of the Sigsbee salt canopy near Mad Dog field, deepwater Gulf of Mexico: presented at UT Geofluids Industrial Associates Meeting, Austin, Texas, February 11, 2010.

AGL research in the Gulf of Mexico: presented to Cobalt Energy, Houston, Texas, March 18, 2010.

AGL research in West Africa: presented to Cobalt Energy, Houston, Texas, March 18, 2010.

Overview of AGL Consortium: presented to Cobalt Energy, Houston, Texas, March 18, 2010.

Influence of basement structure on the evolution of the deepwater Gulf of Mexico: presented at monthly meeting of Austin chapter of the Society of Independent Professional Earth Scientists (SIPES), Austin, Texas, December 2, 2010.

Seismic interpretation of allochthonous salt: Part I—top of salt: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, December 3, 2009.

Salt-tectonic structural styles in extension, shortening, and superposition of deformational events: presented to Pemex, Villahermosa, Mexico, September 4, 2009.

Structural restorations in the deepwater Gulf of Mexico: presented to Nexen, Dallas, Texas, October 16, 2009.

Criteria for interpreting open feeders beneath allochthonous salt sheets: presented to Marathon, Houston, Texas, November 4, 2009.

Inflation and deflation of deeply buried salt stocks during lateral shortening: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Houston, Texas, November 4, 2009.

The Tudor Rose: unexpected topography above buried salt sheets: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, December 3, 2009.

Influence of roof deformation on evolution of salt sheets: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, December 3, 2009.

Seismic interpretation of allochthonous salt: Part II—base of salt: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, December 3, 2009.

AGL finite-element modeling plans: presented to ExxonMobil, Austin, Texico, September 2, 2009.

Overview of UT Geofluids Consortium: presented at BEG retreat, Austin, Texas, December 16, 2009.

AGL salt research in the Gulf of Mexico: presented to Statoil, Austin, Texas, December 10, 2009.

Folds and radial faults above a salt wing: structures on the north flank of the Onion Creek Diapir, paradox Basin, Utah: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, December 4, 2009.

Structural style and evolution of thrust systems driven by spreading of allochthonous salt sheets: BEG Centennial Lecture presented at the Universidad Nacional Autonoma de Mexico, Mexico City, Mexico, April 21, 2009.

Structural style and evolution of thrust systems driven by spreading of allochthonous salt sheets: BEG Centennial Lecture presented at The Pennsylvania State University, State College, Pennsylvania, March 24, 2009.

Structural style and evolution of thrust systems driven by spreading of allochthonous salt sheets: BEG Centennial Lecture presented at the BEG's Houston Research Center, Houston, Texas, June 23, 2009.

Dismembered sutures formed during asymmetric salt-sheet collision: presented at the AAPG Annual Convention, San Antonio, Texas, April 2008.

Diachronous growth of fold limbs from the Mad Dog Anticline: implications for base-salt deformation in the Atwater Fold Belt: presented at the AAPG Annual Convention, San Antonio, Texas, April 2008.

Episodic advance of the Sigsbee salt canopy, deepwater Gulf of Mexico: presented at the AAPG Annual Convention, San Antonio, Texas, April 2008.

Transtension, transpression and superposed deformation in gravity-driven strike-slip systems: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 17, 2008.

Introduction to the Applied Geodynamics Laboratory: presented (twice) to prospective graduate students visiting UT, Austin, Texas, February 26, 2008.

A proposed subsalt foldbelt in the central Gulf of Mexico: presented to StatoilHydro, Houston, Texas, August 27, 2008.

Preliminary interpretation of folds on the flank of the Onion Creek salt diapir, Paradox Basin, Utah: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 17, 2008.

Growth and inflation of an allochthonous fringe at the downdip end of a complex salt basin: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 16, 2008.

Influence of Louann structure on evolution of the deepwater Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 16, 2008.

Interpretation of the deep salt layer in the deepwater Gulf of Mexico: Where was the edge of the Louann salt basin?: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 16, 2008.

A proposed subsalt foldbelt in the central Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 16, 2008.

How much shortening is there in sheet-margin thrust systems?: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 16, 2008.

A proposed foldbelt in the central Gulf of Mexico: presented to Statoil/Hydro, Houston, Texas, August 27, 2008.

Growth of salt-stock canopies—the Full Monty and beyond: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 16, 2008.

The effect of roof thickness on deformation style in gravity-driven strike-slip systems: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 17, 2008.

Animations of diapir fall and salt-sheet advance: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 9, 2007.

Deepwater shale diapirism in the northern Gulf of Mexico: diagnostic criteria and occurrences: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 9, 2007.

Advance mechanisms of allochthonous salt sheets: implications for predicting subsalt pore pressure: presented at GeoFluidsIII Consortium Meeting, Austin, Texas, October 16, 2007.

Introduction to the Paradox Basin: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 8, 2007.

Is there a subsalt foldbelt in the central U.S. Gulf of Mexico?: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 8, 2007.

Criteria for interpreting pinchoff of salt-sheet feeders: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 8, 2007.

Diagnostic criteria of minibasin subsidence mechanisms, with application to the deepwater Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 8, 2007.

Reactivation of salt domes during strike-slip deformation: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 9, 2007.

Technology transfer fro 2007: The Salt Mine, AGL, website, and site visits: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 9, 2007.

Formation of minibasins in salt-stock-canopy systems: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 8, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Miami International University, Miami, Florida, February 2, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at University of Missouri–Rolla, Rolla, Missouri, January 30, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Dalhousie University, Halifax, Nova Scotia, January 23, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Bowling Green State University, Bowling Green, Ohio, January 24, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at The Ohio State University, Columbus, Ohio, January 25, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Indiana University, Bloomington, Indiana, January 29, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at University of Kentucky, Lexington, Kentucky, January 31, 2007.

Advance mechanisms of allochthonous salt sheets: implications for predicting subsalt port pressure: presented at Dalhousie University, Halifax, Nova Scotia, January 23, 2007.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Northern Illinois University, De Kalb, Illinois, January 26, 2007.

Diagnostic criteria of minibasin subsidence mechanisms, with application to the deepwater Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 8, 2007.

Advance mechanisms of allochthonous salt sheets: implications for predicting subsalt port pressure: presented at University of Wyoming, Laramie, Wyoming, December 5, 2006.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Montana Geological Society, Billings, Montana, December 4, 2006.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Montana State University, Bozeman, Montana, December 1, 2006.

Architecture of salt-canopy systems: a preliminary report: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 3, 2006.

Introduction and AGL overview: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 2, 2006.

Transported sutures, rotated roof blocks and salt breakouts in head-on and oblique salt-sheet collisions: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 2, 2006.

Episodic advance of the Sigsbee Salt Canopy, deepwater Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 2, 2006.

Deformation associated with strike sutures between salt sheets: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 2, 2006.

Overview of subsalt trap types in salt-canopy systems: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 3, 2006.

Godzilla vs. Bambi: when sheets and domes collide: a preliminary report: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 3, 2006.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at Association Mexicana de Geologos Petroleros A.C., Delegacion Poza Rica, Poza Rica, Mexico, November 28, 2006.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at New Mexico State University, Las Cruces, New Mexico, November 29, 2006.

Influence of abyssal-plain sedimentation rates on style of salt breakouts: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 2, 2006.

Evolution of suprasalt minibasins in the deepwater Gulf of Mexico: presented at The University of Texas at El Paso, El Paso, Texas, November 30, 2006.

Advance mechanisms of allochthonous salt sheets: implications for predicting subsalt port pressure: presented at New Mexico State University, Las Cruces, New Mexico, November 30, 2006.

Technology transfer for 2006: The Salt Mine, AGL Website, and site visits: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 2, 2006.

Linkage between updip extension, downdip shortening, and basement tectonics on a passive margin, Kwanza Basin, Angola: presented to Woodside Energy Ltd., Perth, Australia, September 1, 2006.

AGL overview and models for salt-sheet advance: presented to Chevron Energy Technology Company, Austin, Texas, August 24, 2006.

Mechanics of the advance of buried salt sheets: presented to BP Production, Houston, Texas, July 11, 2006.

AGL models for deepwater Gulf of Mexico ascension zones: presented to ExxonMobil Exploration Company, Austin, Texas, June 21, 2006.

Overview of the Applied Geodynamics Laboratory: presented to Petrobras management, Austin, Texas, May 11, 2006.

Overview of the Paradox Basin, Utah: presented to Statoil Global Exploration, Moab, Utah, May 30, 2006.

Factors affecting the ability of welds to seal: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Emplacement of allochthonous salt sheets in passive margins and orogens: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Physical modeling of thrust faults and salt welds associate with squeezed stocks: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Overview of the Applied Geodynamics Laboratory: presented to Dr. Simon Lang of Woodside Petroleum, Austin, Texas, April 5, 2006.

Overview of the Applied Geodynamics Laboratory: presented to staff of China Petroleum University, Austin, Texas, April 7, 2006.

Physical models of salt-sheet sutures and drop-through basins: presented to Shell International Exploration and Production, Houston, Texas, April 25, 2006.

Thrust advance along the modern Sigsbee Escarpment: consequences for base-salt structure and overpressure: presented to Shell International Exploration and Production, Houston, Texas, April 25, 2006.

Models for the emplacement of allochthonous salt sheets: presented to Shell International Exploration and Production, Houston, Texas, April 25, 2006.

A preliminary report on the advance history of the Mad Dog salt sheet, Gulf of Mexico: presented to Shell International Exploration and Production, Houston, Texas, April 25, 2006.

Preliminary thoughts on the influence of advance history on the base-salt disturbed zone, Mad Dog salt sheet, Gulf of Mexico: presented to Shell International Exploration and Production, Houston, Texas, April 25, 2006.

Far-traveled minibasins and the Great Plio-Pleistocene salt surge, Green Canyon, Gulf of Mexico: presented to Shell International Exploration and Production, Houston, Texas, April 25, 2006.

Influence of roof density and advance rates on the structure of salt-sheet sutures: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Effects of salt-sheet shape and synkinematic loading on the structure of salt-sheet sutures: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Advance history of the Mad Dog salt sheet, Gulf of Mexico: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Preliminary thoughts on the influence of advance history on the base-salt disturbed zone, Mad Dog salt sheet, Gulf of Mexico: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Diachronous growth of fold limbs on the Mad Dog anticline: implications for base-salt deformation in the Atwater fold belt: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Far-traveled minibasins and the Great Plio-Pleistocene Salt Surge, Green Canyon, Gulf of Mexico: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Physical modeling of import and export of salt from squeezed stocks: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Mechanics of allochthonous salt sheets in passive margins and orogens: presented to Total E&P USA, Houston, Texas, April 26, 2006.

Far-traveled minibasins and the great Plio-Pleistocene salt surge, Green Canyon, Gulf of Mexico: presented at UTIG Seminar Series, The University of Texas at Austin, Austin, Texas, March 3, 2006.

A compressional origin for minibasins near the Sigsbee Scarp, Gulf of Mexico: presented at UT-DOGS Seminar Series, The University of Texas at Austin, Austin, Texas, November 22, 2005.

The fate of raft blocks: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

AGL plans for 2006: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 21, 2005.

Evolution of compressional minibasins: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

Styles of active diapirism in offshore Mauritania: shortening vs. halokinesis: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

Diachronous growth of fold limbs on the Mad Dog anticline: implications for base-salt deformation in the Atwater Foldbelt: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

Emplacement of allochthonous salt sheets in passive margins and orogens: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

Influence of roof density and advance rates on the structure of salt-sheet sutures: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

Effects of salt-sheet shape and synkinematic loading on the structure of salt-sheet sutures: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 21, 2005.

AGL technology transfer for 2005: introducing The Salt Mine: 3rd edition: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 21, 2005.

Cross-section balancing and analog modeling capabilities of the AGL: presented to representatives of the Polish Geological Institute and Polish Ministry of the Environment, Austin, Texas, October 26, 2005.

Far-travelled minibasins and the Great Plio-Pleistocene Salt Surge, Green Canyon, Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, October 20, 2005.

Salt sheet advancement and its impact on the Mad Dog area: presented at BP, Houston, Texas, April 13, 2005.

The Salt Mine 2005—lather, rinse, repeat: presented to BEG project review panel, Austin, Texas, March 29, 2005.

Thrust faults and salt welds associated with squeezed stocks: presented to ExxonMobil Exploration Company, Houston, Texas, January 16, 2005.

Evolution of compressional minibasins: presented to ExxonMobil Exploration Company, Houston, Texas, January 16, 2005.

Diachronous growth of fold limbs on the Mad Dog Anticline: implications for base-salt deformation in the Atwater Foldbelt: presented to ExxonMobil Exploration Company, Houston, Texas, January 16, 2005.

Far-travelled minibasins and the Great Plio-Pleistocene Salt Surge, Green Canyon, Gulf of Mexico: presented to ExxonMobil Exploration Company, Houston, Texas, January 16, 2005.

Emplacement of allochthonous salt sheets in passive margins and orogens: presented to ExxonMobil Exploration Company, Houston, Texas, January 16, 2005.

Import and export of salt from squeezed stocks: presented to ExxonMobil Exploration Company, Houston, Texas, January 16, 2005.

Preliminary report on the advance history of the Mad Dog salt sheet, Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 11, 2004.

AGL technology transfer for 2004: The Salt Mine, Website, and visits: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 11, 2004.

Mechanics of salt-sheet advance: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 11, 2004.

Animations of simple (and not so simple) salt structures: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 11, 2004.

Preliminary thoughts on the influence of advance history on the base-salt, disturbed zone, Mad Dog salt sheet, Gulf of Mexcio: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 11, 2004.

Models for the emplacement of allochthonous salt sheets: presented at Applied Geodynamics Laboratory Industrial Associates Meeting, Austin, Texas, November 11, 2004.

Techniques for identification of feeders and sutures in salt canopy systems: presented to Veritas DGC, Houston, Texas, August 16, 2004.

Effects of deep-water basement uplift in the Kwanza Basin, Angola: presented at Applied Geodynamics Laboratory Industrial Associates meeting, Austin, Texas, November 13, 2003.

Animations of simple salt structures—new additions for 2003: presented at Applied Geodynamics Laboratory Industrial Associates meeting, Austin, Texas, November 13, 2003.

Techniques for identification of feeders and sutures in salt canopy systems: presented at Applied Geodynamics Laboratory Industrial Associates meeting, Austin, Texas, November 13, 2003.

Early compressional history of minibasins near the Sigsbee Escarpment, Gulf of Mexico: presented at Applied Geodynamics Laboratory Industrial Associates meeting, Austin, Texas, November 13, 2003.

Intrusion of salt during shortening: examples from northwest Germany: presented at Applied Geodynamics Laboratory Industrial Associates meeting, Austin, Texas, November 13, 2003.

AGL technology transfer for 2003—improvements to The Salt Mine and the AGL website: presented at Applied Geodynamics Laboratory Industrial Associates meeting, Austin, Texas, November 13, 2003.

The Salt Mine: presented at BP Exploration Forum, Austin, Texas, October 21, 2003.

Overview of salt modeling: the Applied Geodynamics Laboratory: presented to Anne Rieckmann and managers from ExxonMobil, May 2003.

Deepwater deformation in the lower Congo Basin, Gabon: presented to Woodside Petroleum, Ltd., May 2003.

A new look at Angolan salt tectonics, tectonostratigraphy, and differential uplift in the Kwanza Basin: presented to ExxonMobil, January 2003.

Influence of precursor salt structures on thrust faulting, deepwater Gabon: presented to ExxonMobil, January 2003.

The Salt Mine: a progress report: presented to Bureau of Economic Geology Directorate, Austin, Texas, January 2003.

Animations of simple salt structures: presented at the Applied Geodynamics Laboratory Industrial Associates Meeting, The University of Texas at Austin, Austin, Texas, November 2002.

The new AGL website: now worth looking at!: presented at the Applied Geodynamics Laboratory Industrial Associates Meeting, The University of Texas at Austin, Austin, Texas, November 2002.

The Salt Mine status report: presented at the Applied Geodynamics Laboratory Industrial Associates Meeting, The University of Texas at Austin, Austin, Texas, November 2002.

Alternating transtension and transpression on a strike-slip plate boundary: Aquitaine Basin, France: presented at the Applied Geodynamics Laboratory Industrial Associates Meeting, The University of Texas at Austin, Austin, Texas, November 2002.

Restorations of seismic data over contractional structures in the deepwater Lower Congo Basin, Gabon: presented at the Applied Geodynamics Laboratory Industrial Associates Meeting, The University of Texas at Austin, Austin, Texas, November 2002.

The Applied Geodynamics Laboratory: presented to BEG Advisory Committee, The University of Texas at Austin, Austin, Texas, October 2002.

Using EarthVision to analyze normal fault relays: technical brief presented to Dynamic Graphics, Inc., Alameda, California, August 7, 2002.

Contractional salt tectonics in deep water: presented to Woodside Petroleum, Ltd., Perth, Australia, 2002.

Contrasting modes and magnitudes of shortening in salt and sediment on the African Atlantic passive margin: in northwest African Atlantic margin and analogs: presented at the First Marrakech International Oil and Gas Conferences and Exhibition, Marrakech, Morocco, 2002.

Changes in location and style of deepwater contraction in the Kwanza Basin, Angola: in oil and gas in compressional belts: presented at joint meeting of the Tectonic Studies Group and Petroleum Group, Geological Society of London, 2002.

Estranged neighbors: independent tectonic evolution of the onshore and offshore Kwanza Salt Basins, Angola: presented at the AAPG Annual Convention, 2002.

Short Courses

Principles and applications of salt tectonics: presented to PGS, Houston, Texas, August 17–18, 2011.

Principles and applications of salt tectonics: presented to ENI, Houston, Texas, February 7–8, 2011.

Principles and applications of salt tectonics: presented to Saudi Aramco, Dhahran, Saudi Arabia, June 11–12, 2011.

Principles and applications of salt tectonics: presented to TPAO, Ankara, Turkey, June 20–21, 2011.

Principles and applications of salt tectonics: presented to Pemex, Ciudad del Carmen, Mexico, June 28–29, 2010.

Principles and applications of salt tectonics: presented to Fugro, Houston, Mexico, September 1–2, 2010.

Principles and applications of salt tectonics: presented to Fugro, Houston, Texas, September 1–2, 2010.

Principles and applications of salt tectonics: presented to TGS-NOPEC, Houston, Texas, March 26–27, 2008.

Principles and applications of salt tectonics: presented to Pemex, Villahermosa, Mexico, February 11–12, 2008.

Principles and applications of salt tectonics: presented to CGGVeritas, Houston, Texas, October 22–23, 2007.

Principles and applications of salt tectonics: presented to CGGVeritas, Houston, Texas, October 25–26, 2007.

Advanced concepts in salt tectonics: presented to CGGVeritas, Houston, Texas, October 24, 2007.

Principles and applications of salt tectonics: presented to Pemex, Poza Rica, Mexico, March 26–27, 2007.

Advanced concepts in salt tectonics: presented to PGS, Houston, Texas, February 22, 2007.

Principles and applications of salt tectonics: presented to ConocoPhillips, Houston, Texas, January 11–12, 2007.

Principles and applications of salt tectonics: presented to ConocoPhillips, Houston, Texas, January 11–12, 2007.

Principles and applications of salt tectonics: presented to Fugro, Houston, Texas, November 9–10, 2006.

Principles and applications of salt tectonics: presented to Veritas, Houston, Texas, November 14–15, 2006.

Principles and applications of salt tectonics: presented at Veritas Hampson Russell, Houston, Texas, November 6–7, 2006.

Principles and applications of salt tectonics: presented to Woodside Energy, Ltd., Perth, Australia, August 2006.

Salt tectonics: presented at AAPG E&P Methods and Technologies School, Dallas, Texas, April 9, 2006.

Principles and applications of salt tectonics: presented to Veritas Hampson Russel, Houston, Texas, February 2006.

Advanced course in allochthonous salt tectonics: presented to Veritas Hampson Russel, Houston, Texas, February 2006.

Principles and applications of salt tectonics: presented to Kerr-McGee Oil and Gas, Houston, Texas, November 2005.

Principles and applications of salt tectonics: presented to Forest Oil International, Denver, Colorado, October 2005.

Advanced Seminar in Allochthonous Salt Tectonics: presented to BHP Billiton Petroleum, Houston, Texas, July 2005.

Principles and applications of salt tectonics: presented to Hydro Oil and Energy, Bergen, Norway, May 2005.

Principles and applications of salt tectonics: presented to Forest Oil International, Denver, Colorado, November 2004.

Principles and applications of salt tectonics: presented to Veritas DGC, Houston, Texas, September 2004.

Principles and applications of salt tectonics: presented to Repsol-YPF, Madrid, Spain, May 3, 2004.

Principles and applications of salt tectonics: presented to ChevronTexaco, New Orleans, Louisiana, January 12-13, 2004.

Principles and applications of salt tectonics: 8th International Congress of the Brazilian Geophysical Society, Rio de Janeiro, Brazil, September 19, 2003.

Principles and applications of salt tectonics: presented to Veritas DGC, August 2003.

Principles and applications of salt tectonics: presented to Woodside Petroleum, Ltd., May 2003.

Principles and applications of salt tectonics: presented to Encana Petroleum, December 2002.

Principles and applications of salt tectonics: presented to Veritas DGC (four times), Houston, Texas, 2002.

Principles and applications of salt tectonics: presented to EnCana (twice), Calgary, Canada, 2002.

University Teaching

GEO 191, Earth Surface and Hydrologic Processes: presented at The University of Texas at Austin (co-taught with Peter Flemings), Austin, Texas, Fall 2009.

GEO 191, Earth Surface and Hydrologic Processes: presented at The University of Texas at Austin (co-taught with Peter Flemings), Austin, Texas, Fall 2008.

Principles and Applications of Salt Tectonics: presented to The University of Texas at Austin AAPG Student Chapter, Austin, Texas, January 26–27, 2006.

Regional restoration across the Kwanza Basin, Angola: salt tectonic triggered by repeated uplift of a metastable passive margin: presented at Baylor University Geology Colloquium, Waco, Texas, October 1, 2003.

Structural geology: presented to Geology 3445, Baylor University, Waco, Texas, February 2000.

Physical geology: presented to Geology 1405, Baylor University, Waco, Texas, February 2000.

Geology 1405, Physical Geology: Baylor University, October 1999.

Geology 5377/4V90, Hydrocarbon Structural Styles: Baylor University, October 1999.

Geology 5325-03, Advanced Metamorphic Petrology: Baylor University, February 1999.

Geology 1405, Physical Geology: Baylor University, February 1999.

Geology 1405, Physical Geology: Baylor University, October 1998.

Geology 5V90-05, Construction of Balanced Cross-Sections: Baylor University, October 1998.

Geology 3445, Structural Geology: Baylor University, October 1998.

Geology 5377-02, Tectonic evolution of Western North America: Baylor University, February 1998.

Geology 1405, Physical Geology: Baylor University, February 1998.

Structural geology: presented to Geology 3445, Baylor University, Waco, Texas, October 1997.

Physical geology: presented to Geology 1405, Baylor University, Waco, Texas, October 1997.

K-12

5th grade Science Fair judge: Hill Country Christian School, Austin, Texas, February 2003.

Earthquakes: presented to the 5th grade at Hill Country Christian School (two presentations), Austin, Texas, October 2002.

Groundwater and caves: presented to the 6th grade at Hill Country Christian School (two presentations), Austin, Texas, October 2002.

Field Trips

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from BHP Billiton, ConocoPhillips, Fugro, IMP, Nexen, Noble, Pemex, Statoil, Shell, and Total, Moab, Utah, September 2010.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from BHP Billiton, CGGVeritas, ConocoPhillips, Hess, Nexen, Samson, and Shell, Moab, Utah, June 2010.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from BHP Billiton, ConocoPhillips, Fugro, IMP. Nexen, Noble, Pemex, Shell, Statoil, and Total, Moab, Utah, September 2010.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from BP, Encana, Fugro, Nexen, Repsol, Samson, and Saudi Aramco, Moab, Utah, September 2010.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from BHP Billiton, BP, Hess, Maersk, Marathon, Nexen, StatoilHydro, and Woodside, Moab, Utah, September 2009.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from Fugro, Hess, Nexen, Repsol, and Saudi Aramco, Moab, Utah, June 2009.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for Shell E&P, Moab, Utah, May 26–30, 2008.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for CGGVeritas, Moab, Utah, June 2008.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted for delegates from BHP, CGGVeritas, ConocoPhillips, Hess, Marathon, Mariner, Nexen, and Woodside, Moab, Utah, September 2008.

Leader, Salt and extensional tectonics in the Paradox Basin: Statoil, Austin, Texas, May 2007.

Leader, Salt and extensional tectonics in the Paradox Basin: conducted at Applied Geodynamics Laboratory Industrial Associates Meeting, Moab, Utah, October 10–11, 2007.

Leader, Salt and extensional tectonics in the Paradox Basin: Statoil Global Exploration, Moab, Utah, May 2006.

Leader, Salt and extensional tectonics in the Paradox Basin: Kerr-McGee Oil and Gas, Moab, Utah, June 2006.

Leader, Salt and extensional tectonics in the Paradox Basin: Hydro Oil and Energy, Moab, Utah, September 2005.

Leader, Salt and extensional tectonics in the Paradox Basin: Shell Exploration and Production Company, Moab, Utah, October 2004.

Leader, Salt and extensional tectonics in the Paradox Basin: AAPG Field Seminar, Moab, UT, June 2003.

Leader, Salt and extensional tectonics in the Paradox Basin: AAPG Field Seminar, Moab, UT, May 2002.

Continuing Education-Short Courses

La Popa Basin Field Seminar: La Popa Basin Joint Industry Research Consortium, Monterrey, Mexico, December 2005

Practical Seisworks: Landmark Graphics, Houston, Texas, March 2003

Fold-Thrust Belts: Petroleum Potential, Global Setting, Geodynamics: Dietrich Ryder, Austin, Texas, March 2003

Photoshop Beyond the Basics: The University of Texas at Austin, Austin, Texas, July 2002

Photoshop Basics: The University of Texas at Austin, Austin, Texas, June 2002

Reviews of Articles, Abstracts, and Research Proposals

National Science Foundation (Research Proposal), 2011, 53 p

Marine and Petroleum Geology (Article), 2011, 46 p

GCAGS Transactions (Article), 2011, 35 p

Geology (Article), 2011, 15 p

Geological Society of America Bulletin (Article), 2010, 58 p

GCAGS Transactions (Article), 2010, 15 p

Geology (Article), 2009, 18 p

GSA Bulletin (Article), 2009, 58 p

Journal of the Geological Society (Article), 2009, 30 p

Marine and Petroleum Geology (Article), 2008, 46 p

Geological Magazine (Article), 2008, 29 p

Marine and Petroleum Geology (Article), 2008, 24 p

Journal of Structural Geology (Article), 2008, 40 p
Deep Shelf Gas (BEG Contract Report), 2007, 37 p.
Marine and Petroleum Geology (Article), 2007, 24 p.
Journal of Structural Geology (Article), 2007, 40 p.
Earth-Science Reviews (Article), 2007, 56 p.
AAPG Bulletin (Article), 2007, 39 p.
AAPG Bulletin (Article), 2006, 39 p
Basin Research (Article), 2006, 31 p.
AAPG Bulletin (Article), 2006, 24 p
American Chemical Society (Research Proposal), 2006
AAPG Bulletin (Article), 2006, 42 p
American Chemical Society (Research Proposal), 2005, 41 p
AAPG Bulletin (Article), 2005, 46 p
AAPG Bulletin (Article), 2005, 38 p
Springer International Geologische Rundschau (Article), 2004, 22
American Chemical Society (Research Proposal), 2003
Geological Society of America Bulletin (Article), 2003, 30
National Science Foundation (Research Proposal), 2002, 25
Gulf Coast Section SEPM Annual Research Conference (Article), 2002, 22
Gulf Coast Section SEPM Annual Research Conference (Article), 2002, 20
American Chemical Society Petroleum Research Fund (Research Proposal), 2001, 20
Bureau of Economic Geology Guidebook 28 (Article), 2001, 12
Bureau of Economic Geology Guidebook 28 (Article), 2001, 30
Bureau of Economic Geology Guidebook 28 (Article), 2001, 27
Bureau of Economic Geology Guidebook 28 (Article), 2001, 26
American Chemical Society Petroleum Research Fund (Research Proposal), 2001, 38
National Environment Research Council (Research Proposal), 2001, 31
Bureau of Economic Geology Guidebook 28 (Article), 2001, 26
AAPG Bulletin (Article), 51 p
GSA Bulletin (Article), 58 p
GCAGS (Article), 13 p.
Geological Society of London (Article), 43 p

Graduate Student Committee Participation

Member, Ph.D. Dissertation Committee, Bryce Wagner, The University of Texas at Austin, Completed, 2010

Co-supervisor, Ph.D. Dissertation Committee, Patricia Montoya, Salt tectonics and sequence-stratigraphic history of minibasins near the Sigsbee Escarpment, Gulf of Mexico: The University of Texas at Austin, Austin, Texas, completed in May, 2006

Member, M.S. Thesis Committee, Eric Tuitjer, The University of Texas at Austin, Austin, Texas, 2002

Chair, M.S. Thesis Committee, Patrice Chauvin, Structural style of a normal fault system above the Salt Valley Salt Wall, Paradox Basin, Utah: Baylor University, Waco, Texas, 2001

Chair, M.S. Thesis Committee, Chris Boyers, Structural style and normal faulting adjacent to the Onion Creek Salt Diapir, Paradox Basin, Utah: Baylor University, Waco, Texas, 2000

Chair, M.S. Thesis Committee, Xin Luo, 3-D seismic interpretation of central offshore Louisiana, Gulf of Mexico: Baylor University, Waco, Texas, 2000

Member, M.S. Thesis Committee, Candice Carrell, Structural influences on the North Hickory aquifer, San Saba County, Texas: Baylor University, Waco, Texas, 2000

Member, M.S. Thesis Committee, Frank Hernandez, Seismic trace analysis of a mature oil field in Bee County, South Texas: Baylor University, Waco, Texas, 2000

Member, Thesis Committee, Hongxing Ge, Kinematics and dynamics of salt tectonics in the Paradox Basin, Utah and Colorado: field observations and scaled modeling: The University of Texas at Austin, Austin, Texas, 1996