

# CURRICULUM VITAE FOR DR. DAVID R. PYLES

*Director*

*Chevron Center of Research Excellence*

*Research Professor*

*Department of Geology and Geological Engineering*

*Colorado School of Mines*

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## EDUCATION

- 2004 Ph.D. Geology, University of Colorado
- 2000 M.Sc. Geology, Colorado School of Mines
- 1997 B.Sc. Geology, California State University, Chico
- 1994 A.Sc Science, Riverside Community College

## POSITIONS HELD

- 2010-present Director and Research Professor of the Chevron Center of Research Excellence (CoRE)  
Department of Geology and Geological Engineering, Colorado School of Mines (CSM)
- 1999-present Consultant and President, Boulder Stratigraphics: Subsurface characterization, peer review, and training for the oil and gas industry. Clients include Algerian State Oil Company, Chevron, Exxon Mobil, Indonesian Petroleum Association, Kerr McGee, Nexen, Repsol, Shell, Questar, Total.
- 2006-2010 Technical Research Project Manager and Research Professor of CoRE, CSM
- 2005-2006 Research Associate and Principal Investigator for Laser Assisted Analogs of Siliciclastic Reservoirs (LASR) Research Consortium, Bureau of Economic Geology, Jackson School of Geosciences, University of Texas at Austin
- 2004 Postdoctoral Research Fellow, co-Principal Investigator for LASR Research Consortium, Bureau of Economic Geology, Jackson School of Geosciences, UT Austin
- 2000-2004 Research Assistant, Energy and Minerals Applied Research Center, CU Boulder
- 2003 Geoscience Tutor, University of Colorado at Boulder
- 2002 Summer Intern, Upstream Technology Group, BP America, Houston, Texas
- 2001 Project Researcher, Journal of Sedimentary Research
- 2000 Research Associate, Lewis Shale Consortium, Colorado School of Mines
- 1999-2000 Teaching Assistant, Department of Geological Engineering, Colorado School of Mines
- 1998 Summer Intern, Gulf of Mexico Deepwater Business Unit, Chevron, New Orleans
- 1997-1998 Research Assistant, Bureau of Indian Affairs and Colorado School of Mines
- 1997 Weather data collector, the Weather Network, Chico, California
- 1995-1997 Teachers assistant for Earth Science for Teachers, California State University, Chico
- 1997 Geoscience Tutor, California State University, Chico
- 1996-1997 Interning Geologist, J. Byer Group a Geotechnical Firm, Glendale, California
- 1990-1996 Multiple non-science jobs including: (1) fork lift operator, Target; (2) assistant manager, Target Garden Center; (3) server, Marie Calendars, (4) machinist, and (5) construction

## **INDUSTRY EXPERIENCE**

As a consultant to the oil and gas industry I have performed numerous roles including core description, peer review for prospects and production strategies, seismic interpretation, field schools, and in-house training. I have spent approximately 42 weeks consulting for oil and gas companies since 2000. I currently offer 5 field schools to clients. Additionally, all my academic research has been funded by the oil and gas industry, which has provided me opportunities to interact and collaborate with researchers in the oil and gas industry totaling more than 65 weeks of residence time with industry partners. Lastly, I completed two internships as a graduate student totaling 24 weeks. I view my industry experience as being equal to that of a researcher who has working in the oil and gas industry for 14 years.

## **RESEARCH INTERESTS**

Quantitative stratigraphy, process sedimentology, field geology, tectonics and sedimentation

## **CURRENT RESEARCH PROJECTS**

### **Solo:**

1. On the relationship between sinuosity, symmetry, and substrate in submarine channels
2. Hierarchical organization of shale-lengths in distributive submarine fans
3. Relating stacking patterns of submarine channels to reservoir characteristics

### **Collaborations (\*student):**

1. How size and shape of a basin affects stratigraphic architecture of submarine fans: outcrop perspective in the Guaso and Modelo Fms. (with G. Gordon\*, J. Clark)
2. Stratigraphy, sedimentation, and architecture of distributive submarine fans (with L. Strachan)
3. Flow processes and sedimentation in the channel-lobe transition zone (with G. Gordon\*)
4. Relating shoreline trajectory to stratigraphic architecture of fluvial deposits (with J. Moody\*)
5. Structure-stratigraphy interactions in a fluvial-deltaic system (with J. Moody\*)
6. Hydrodynamic fractionation of minerals due to grain shape and density in distributive submarine fans: Measurements from outcrops and physical models (with J. Stammer\*, K. Straub)
7. Structure-strat. interactions in a structurally confined basin (with M. Hoffman\*, G. Gordon\*, J. Moody\*, A. Moss-Russell\*, H. Silalahi\*, P. Setiawan\*, J. Clark, B. Bracken, C. Guzowski)
8. Clustering of channel belts in fluvial systems, Wasatch Formation (with J. Pisel\*)
9. Strat. architecture of floodplain deposits in fluvial systems (with K. Sendziak, G. Ford)
10. Quantifying compensational stacking in debris fans (with C. Pederson\*, P. Santi, CSM)
11. Continuity of sandstones in fluvial channels (with B. Nuse\*, M. Kirschbaum)
12. Relating water depth to delta architecture (with K. O'Brien\*, M. Andreson\*, M. Kirschbaum)
13. Fault-bounded fairways in deepwater depositional systems (with G. Gordon\*)
14. Hierarchical stacking of lobes in submarine fans, Pt. Loma Fm. (with A. Fleming\*, D. Anderson)
15. Stratigraphic architecture of an asymmetrical, structurally confined basin (with G. Gordon\*)

## **RESEARCHERS and GRADUATE STUDENTS SUPERVISED**

### **Researchers and Personnel Supervised (funded through grants):**

1. Mark Kirschbaum, Research Associate, 2012-present
2. Cathy Van Tassel, Program Manager, 2012-present
3. Linda Martin, Research Associate, 2009-present
4. Charlie Rourke, Program Manager, 2006-2012, *retired*
5. Renaud Bouroullec, Research Assist. Prof., 2007-2009, *now at Bouroullec Consulting*
6. Douglas Paton, Post Doc and Research Assist. Prof., 2006-2007, *now at Leeds University*
7. Mary Carr, Research Assist. Prof., 2006-2007, *now Director of PTTC at CSM*
8. Jim Borer, Research Associate, 2006, *now at El Paso Energy*

9. Mark Tomasso, Research Associate, 2005-2006, *now at Merit Energy*
10. Florence Bonnaffe, Research Assistant, 2005-2006, *now at Bureau of Economic Geology*

**Graduate Students Advised** (fully funded through grants):

*Doctor of Philosophy*

1. Jesse Pisel, PhD, expected graduation 2015
2. Jane Stammer, PhD, expected graduation 2014
3. Jeremiah Moody, PhD, expected graduation 2014
4. Greg Gordon, PhD, graduated 2014, *now at Aera Energy*
5. Grace Ford, PhD, graduated 2012, *now at Sundance Energy*

*Master of Science*

1. Kimber O'Brien, MS, expected graduate 2015
2. Bradley Nuse, MS, expected graduation 2015
3. Matthew Andresen, MS, expected graduation 2015
4. Chris Pederson, MS, expected graduation 2014 (co-advise with P. Santi)
5. Kassandra Sendziak, MS, graduated 2012, *now at Anadarko*
6. Alexandra Fleming, MS, graduated 2010, *now at Chevron* (co-advised with D. Anderson)
7. Jeremiah Moody, MS, graduated 2010, *now at Colorado School of Mines*
8. Amy Moss, MS, graduated 2009, *now at Chevron*
9. Henri Silalahi, MS, graduated 2009, *now at Chevron*
10. Prianto Setiawan, MS, graduated 2009, *now at Chevron*

*Undergraduate workers and researchers supervised*

Benjamin Dellenbach, Cole Rosenbaum, Mary Snooks, Geraldus Listiono, Bradley Nuse, Justin Tappan, Bob Beach

**Graduate Student Committee Member:**

1. Josgre Salzar, PhD, expected graduation 2014 (University of South Carolina)
2. Viktor Terlaky, PhD, expected graduation 2013 (University of Ottawa)
3. Jonathan Funk, MS, graduated 2010, *now at Marathon*
4. Matthew Hoffman, MS, graduated 2009, *now at Chevron*
5. Don Walker, MS, graduated 2008, *now at ConocoPhillips*
6. Robert Amerman, PhD, graduated 2008, *now at Noble*
7. Matthew Boyce, MS, graduated 2006, *now at Encana*

## TEACHING EXPERIENCE

**Graduate (CSM):**

1. Tectonics and Sedimentation with field trip to Spain (co-taught with Humphrey; spring, 2013)
2. Special Topics in Hydrodynamic Fractionation (fall, 2013)
3. Special Topics in Shallow Marine Depositional Systems (spring 2013)
4. Carbonates and Clastics in Confined Basins with field trip to Ireland (co-taught with Hitzman and Humphrey; spring, 2009)
5. Deepwater Sedimentation (spring, 2008)

**Undergraduate (CSM):**

1. Stratigraphy (TA; 1999)
2. Multidisciplinary Petroleum Design (TA, 1998)
3. Earth System Science (TA, 1998)
4. Undergraduate Field Camp (TA, 2000)

**Field Schools (CSM) (not for units):**

1. Stratigraphic architecture of the shelf-to-basin profile, Lewis Shale Wyoming (2011, 2013)

2. Reservoir architecture of deepwater systems, coastal outcrops of Southern California (2009)

## VOLUNTEERED SOCIETY AND ACADEMIC ACTIVITIES

### Associate Editor:

- 2013-present AAPG Bulletin Lead Associate Editor—E&P Notes
- 2009-2013 AAPG Bulletin Associate Editor

### Reviewer of Articles and Research Grants

- Research Grants (dozens): AAPG Bulletin, AAPG Spec. Studies, Basin Research, Geology, Geo-Marine Letters, GCS-SEPM Special Publications, JGR Earth Surface, Journal of Petroleum Geology, Journal of Sedimentary Research, Marine and Petroleum Geology, Sedimentology
- Research Grants (Numerous): German Research Foundation (DFG), Louisiana Board of Regents Grants, National Science Foundation, Petroleum Research Fund (American Chemical Society)

### Committees, Councils, Boards:

#### *Colorado School of Mines*

- 2013-present Research Advisory Committee (Department committee)
- 2011-present Colorado School of Mines Research Council (University committee)

#### *Societies*

- 2013-present RMS-SEPM Board: presentations coordinator
- 2011-2013 Chair of the AAPG Publication Award Committee
- 2011 Technical program committee: Siliciclastics, AAPG Annual Convention

### Session Chair, Convener:

- 2010-present **D. Pyles**, C. Van Tassel, C. Rourke (conveners): CoRE Education Series
- 2014 Mesozoic Life by Ian Miller
- 2014 Field Trip to Mesozoic Strata of the Colorado Plateau by Mark Kirschbaum
- 2014 Forward modeling of deltas by Doug Edmunds
- 2014 Low vs. high net-sand content fluvial systems by Paul Heller
- 2013 Carbonates—A challenge for basin modelers by Marek Kacwicz
- 2013 Petroleum Systems Modeling—Current and Future by Marek Kacwicz
- 2013 Field trip to Lewis Shale, Wyoming by David Pyles
- 2013 Information Resources for Geoscience Research by Lisa Dunn
- 2013 Stratigraphic architecture of prograding basin margins by David Pyles
- 2013 Field trip to the Book Cliffs by Mark Kirschbaum
- 2012 Special screening of *Switch* and follow-up discussion by Scott Tinker
- 2012 Sinking Deltas (special lecture) by James Syvitski
- 2011 Geostatistics (short course) taught by Michael Pyrcz
- 2011 Energy and our future (special lecture) by Scott Tinker
- 2011 Quantifying compensation (special lecture) by David Pyles and Kyle Straub
- 2010 Quantitative analysis of stratigraphic systems (special lecture) by John Martin
- 2010 Relating stratigraphic grade to reservoir architecture (special lecture) by David Pyles
- 2010 Hydrodynamics of turbidity currents (special lecture) by Alessandro Cantelli
- 2009 Tectonics and Sedimentation (short course) by Brian Romans and Andrea Fildani
- 2008 Applied Sequence Stratigraphy (short course) by Tim McHargue
- 2013 Gordon, G., **D.R. Pyles**, and Z. Sylvester: Deepwater reservoirs of California (Session in Honor of Don Lowe): Pacific Section AAPG Annual Meeting oral and poster sessions.
- 2013 Sweet, M., and **D.R. Pyles**: Publication Awards Session: Charles Taylor Fellowship Meeting
- 2011 Dixon, B., and **Pyles D. R.**, Prediction of deepwater stratigraphy: Quantification, Characterization, and Modeling: AAPG Annual Meeting oral and poster sessions.
- 2005-2008 **D. R. Pyles** and R.T. Beaubouef, SEPM Deepwater Research Group
- 2008 Session Theme: Honoring William Normark
- 2007 Session Theme: Avulsion in the Slope Environment
- 2006 Session Theme: Distributary Basin Floor Environment
- 2005 Session Theme: Sinuous Slope Channels

- 2008 Hubbard, S., and Pyles, D.R., Recent Advances in Deepwater Sedimentology: Science Driven by the Search for Natural Resources: GSA Annual Meeting oral and poster sessions
- 2007 Pyles, D.R., and P. Joseph, Effects of Active Structural Growth and Confined Basins on Sandbody Architecture: AAPG Annual Meeting oral and poster sessions
- 2002 Nelson, H., P. Weimer, and D.R. Pyles, Modern seafloor, swath, and subsurface seismic 3-D images: Implications for deep-water systems models and deep-water plays: SEPM Research Symposium, AAPG Annual Meeting oral session
- 2002 Deep-water core workshop, northern Gulf of Mexico: AAPG Annual Meeting (co-conveners: Weimer, P., M. Sweet, M. Sullivan, J. Kendrick, D. Pyles, and A. Donovan)

**Field Trip Leader:**

- 2009 Pyles, D.R., R.M. Slatt, Stratigraphic architecture of shelf-to-basin deposits in prograding systems: AAPG/SEPM Field Trip
- 2008 Pyles, D.R., Reservoir architecture of the Fox Hills Sandstone and Lewis Shale, southern Wyoming: RMAG, RMS-AAPG Field Trip
- 2002 Ron Steel, David Pyles, Roger Slatt, Christian Carvejal, Mark Olson, and Jeff Crabaugh Field trip to south central Wyoming: RMS-SEPM, RMS-AAPG Field Trip

**AWARDS and DISTINCTIONS**

**Awards**

- 2013 AAPG Charles Taylor Fellowship in recognition for service to AAPG Bulletin
- 2011 Top 10 Talk at AAPG Annual Convention, Houston
- 2010 AAPG Wallace E. Pratt Memorial Award for best article in AAPG Bulletin
- 2010 AAPG J.C. Sproule Memorial Award for best article by a young author in AAPG Publication
- 2010 SEPM Best Poster Presentation Award
- 2009 AAPG J.C. Sproule Memorial Award for best paper by a young author in AAPG Publication
- 2007 Top 10 Talk at AAPG Annual Convention Long Beach (coauthor)
- 2007 Top 10 Poster at AAPG Annual Convention Long Beach (coauthor)
- 2004 AAPG Best Student Oral Presentation Award, AAPG Annual Convention
- 2002 A.I. Levorsen Award for the best oral presentation presented at RMS-AAPG Meeting
- 2000 First place, Colorado Scientific Society Graduate Student Oral Competition Semifinals
- 2000 Second place, Colorado Scientific Society Graduate Student Oral Competition Finals
- 1994-1997 Chico State Dean's List

**Keynote and Invited Presentations for Societies and Conferences:**

- 2014 Community Surface Dynamics Modeling System (CSDMS-sponsored by NSF) Annual Meeting - *keynote*
- 2013 Weimer Symposium at Colorado School of Mines– *invited* (co-author)
- 2013 Gulf of Mexico Deepwater Symposium - *invited*
- 2012 International Association of Sedimentologists Annual Meeting (co-author) - *keynote*
- 2012 San Joaquin Geological Society (co-author) - *invited*
- 2012 Coast Geological Society, Ventura, California (co-author) - *invited*
- 2012 Rocky Mountain Section SEPM - *invited*
- 2008 AAPG Annual Meeting - *invited*
- 2008 Rocky Mountain Association of Geologists Meeting - *invited*
- 2007 EAGE Annual Meeting (co-author) - *keynote*
- 2007 AGU Annual Meeting - *invited*
- 2007 SEPM Deepwater Research Group Meeting - *invited*
- 2007 Geological Society Digital Outcrop Conference (co-author) - *keynote*
- 2004 SEPM Sequence Stratigraphy Research Group Meeting - *invited*
- 2004 SIPES of Colorado Lunch Meeting - *invited*
- 2000 Rocky Mountain Section SEMP – *invited*

**Press**

- 2012 AAPG Explorer (March) Cover photo and caption
- 2011 Energy and the Earth, “Searching for and Recovering Fuels from Difficult Loctns.,” p. 42-45

- 2010 *AAPG Explorer* (May), “Presentation Awards Pile up for Pyles,” p. 6
- 2010 *AAPG Explorer* (May), “Pyles’ Research Looks at Ireland Analogs,” p. 6-8
- 2009 *Energy and the Earth*, “Unique Energy Industry Partnership,” p. 42-43
- 2007 *AAPG Explorer* (August) Cover photo and caption

### **FUNDING, GRANTS, SCHOLARSHIPS**

*Funding for Research and Educational Programs (since I received my PhD in 2004) is \$11.4 million!*

#### **Colorado School of Mines (\$10,545,000):**

- 2013-2017 Principal Investigator: Strategic Research Fund – Chevron (\$2,810,000)
- 2013-2017 Principal Investigator: University Partnership Program – Chevron (\$1,116,000)
- 2013-2017 CoRE Director Fund – Chevron (\$950,000)
- 2013 Funding, Spain Fld. Trp.: Chevron, Apache, ConocoPhillips, Anadarko, Marathon (\$25,000)
- 2012 Principal Investigator: Strategic Research Fund – Chevron (\$600,000)
- 2012 Principal Investigator: University Partnership Program – Chevron (\$100,000)
- 2011 Principal Investigator: Strategic Research Fund – Chevron (\$600,000)
- 2011 Principal Investigator: University Partnership Program – Chevron (\$100,000)
- 2011 Funding, Lewis Shale Field Trip: Nexen, Marathon, Hess, ConocoPhillips, Apache (\$7,000)
- 2010-2014 CoRE Director Fund – Chevron (\$760,000)
- 2010 Principal Investigator: Strategic Research Fund Excellence – Chevron (\$600,000)
- 2010 Principal Investigator: University Partnership Program – Chevron (\$100,000)
- 2010 Funding for Ireland Field Trip: Chevron, Hess, Apache, ConocoPhillips, Nexen (\$30,000)
- 2009 Principal Investigator: Strategic Research Fund -- Chevron (\$600,000)
- 2008 Principal Investigator: Strategic Research Fund -- Chevron (\$907,000)
- 2007 Principal Investigator: Strategic Research Fund -- Chevron (\$670,000)
- 2006 Principal Investigator: Strategic Research Fund -- Chevron (\$570,000)

#### **Bureau of Economic Geology, University of Texas (\$823,000):**

- 2006 Jackson School of Geosciences Research Fellowship (\$8,000)
- 2005 Principal Investigator: Laser-Assisted Analogs of Siliciclastic Reservoirs, an industry-funded research consortium at the Bureau of Economic Geology -- Chevron, ConocoPhillips, Encana, ExxonMobil, Marathon, Petrobras, NorskHydro, Shell, Statoil (\$417,000)
- 2005 Principal Investigator: Multidisciplinary approach to studying slope channel processes and architectures -- ExxonMobil (\$30,000)
- 2005 Principal Investigator: Outcrop Characterizations of Capistrano Formation, southern California borderland -- Shell (\$40,000)
- 2005 Jackson School of Geosciences Research Fellowship (\$8,000)
- 2004 Co-Principal Investigator: Laser-Assisted Analogs of Siliciclastic Reservoirs, an industry-funded research consortium at the Bureau of Economic Geology -- ChevronTexaco, ConocoPhillips, Encana, ExxonMobil, Petrobras, NorskHydro, Statoil (\$320,000)

#### **University of Colorado at Boulder—during PhD Degree (\$89,250):**

- 2003 Petroleum Research Fund Grant PRF# 40277-AC8, Paul Weimer (PI, temporary advisor), “Quantification of submarine fan deposits, Carboniferous Ross Sandstone, western Ireland—Applications to reservoir modeling” (\$80,000)
- 2003 AAPG Grants-in-Aid
- 2003 SIPES Foundation’s Edward A. McCullough Memorial Scholarship
- 2003 Gulf Coast Association of Geological Societies Student Grant
- 2003 Bruce Curtis Award
- 2002 Gulf Coast Section SEPM Ed Picou Grant
- 2002 William Hiss Travel Award
- 2001 William Hiss Travel Award
- 2001 Bruce Curtis Award
- 2000 William Hiss Travel Award

**Colorado School of Mines—during MS Degree (\$33,829):**

- 2000 Harry Kent Petroleum Geology Scholarship
- 2000 Pustmueller Scholarship
- 1999 AAPG Grants-in-Aid
- 1999 Colorado Fellowship
- 1999 John and Lois Haun Scholarship
- 1999 RMAG Graduate Student Grant
- 1998 Bureau of Land Management Research Grant
- 1997 Amoco Graduate Fellowship
- 1997 Chevron Graduate Fellowship

**California State University, Chico—During BS Degree (\$3,050):**

- 1997 Chico Geoscience Students Scholarship
- 1996 Floyd L. English Scholarship
- 1996 Fred Newman Scholarship
- 1995 Chico Gem and Mineral Association Scholarship
- 1995 Dave and Frances Ramme Scholarship

**PUBLICATIONS (\*student Author)****Articles and Books in press and in review (n=10):**

*In Press: n=5*

*In Review: n=5*

1. Ford, G.L.\* , **D.R. Pyles**, *in press*, A hierarchical approach for evaluating fluvial systems: Architectural analysis and sequential evolution of the high net-sand content middle Wasatch Formation, Uinta Basin, Utah: AAPG Bulletin.
2. **Pyles, D.R.**, and L. Strachan, *in press*, Architecture of a distributive submarine fan, Ross Sandstone and Clare Shale (Ireland): Turbidites and mass failure deposits in a structurally confined basin, *in* P. Wignall and J. Best, eds., Carboniferous Shannon Basin, western Ireland, Special Publication of the International Association of Sedimentologists.
3. L. Strachan, and **Pyles, D.R.**, *in press*, Deposition on an unstable slope, Gull Island Formation (Ireland), *in* P. Wignall and J. Best, eds., Carboniferous Shannon Basin, western Ireland, Special Publication of the International Association of Sedimentologists.
4. Gordon, G.S.\* , **D.R. Pyles**, J. Clark, M. Hoffman\*, *in press*, Stratigraphic evolution, architectural analysis, and geometric model of a ponded submarine fan: The Guaso I Turbidite System, Ainsa Spain: Journal of Sedimentary Research.
5. Gordon, G.\* , **D.R. Pyles**, *in press*, From submarine canyon to basin margin: Fault and bathymetric controls on submarine fan stratigraphy and distributions of lithofacies associations, upper Modelo Formation, eastern Ventura Basin, California: AAP Bulletin.
6. **Pyles, D.R.**, A. Moss-Russell\*, H. Silalahi\*, J. Clark, D. Anderson, B. Bracken, J. Moody\*, M. Hoffman\*, *in review*, Time-space variations in sedimentation and stratigraphic architecture of a prograding shelf-to-basin system: Sobrarbe Formation, Spain: AAPG Bulletin.
7. Gong, C., Y., Wang, **D.R. Pyles**, R.J. Steel, Q. Xu, D. Li, *in review*, Shelf-edge trajectories: Predictors of deep-water sedimentation styles and volumes of sandstone: AAPG Bulletin
8. Gordon, G.\* , **D. Pyles**, *in review*, Flow processes and sedimentation in the deepwater channel-lobe transition zone: outcrop study of the Guaso System, Spain: Sedimentology
9. **Pyles, D.R.**, and L. Strachan, *in review*, Stratigraphic architecture of a distributive channel-lobe complex: outcrop study of the Bridges of Ross, Ross Sandstone, Ireland: Geosphere.
10. Ford, G.L.\* , **D.R. Pyles**, *in review*, Cyclicity and compensational stacking in fluvial systems based on an outcrop study of the Wasatch Formation, Uinta Basin, Utah: Journal of Sedimentary Research.

**Published Articles and Books (n=33):**

*Articles: n=20*

*Books edited: n=2*

*Chapters in books, atlases, reviewed conference proceedings: n=8*

*Field guidebooks: n=3*



1. Salazar, J.A., J.H. Knapp, C. Knapp, [D.R. Pyles](#), 2014, Salt tectonics and Pliocene stratigraphic framework at MC-118, Gulf of Mexico: An integrated approach with application to deep-water confined structures in salt basins: *Marine and Petroleum Geology*, v. 50, p. 51-67.
2. Kim, Y., W. Kim, D. Cheong, T. Muto, [D.R. Pyles](#), 2013, Piping of coarse-grained sediment to a deep water fan through a shelf-edge delta bypass channel: Tank experiments: *Journal of Geophysical Research: Earth Surface*, v. 118, p. 2279-2291.
3. [Pyles, D.R.](#), K. Straub, J.G. Stammer\*, 2013, Spatial variation in the composition of turbidites due to hydrodynamic fractionation: *Geophysical Research Letters*, v. 40, p. 3919-3923.
4. Straub, K., and [D.R. Pyles](#), 2012, Quantifying the hierarchical organization of compensation in submarine fans using surface statistics: *Journal of Sedimentary Research*, v. 82, p. 889-898.
5. Moody\*, J., [D.R. Pyles](#), J. Clark, R. Bouroullec, 2012, Quantitative outcrop characterization of an analog to weakly confined submarine channel systems: Morillo 1 member, Ainsa Basin, Spain: *AAPG Bulletin*, v. 96, p. 1813-1841.
6. [Pyles, D.R.](#), M. Tomasso, D. Jennette, 2012, Flow Processes and Sedimentation Associated with Erosion and Filling of Sinuous Submarine Channels: *Geology*, v. 40, p. 143-146.
7. Funk\*, J., R.M. Slatt, [D.R. Pyles](#), 2012, Quantification of static connectivity between deep-water channels and stratigraphically adjacent architectural elements using outcrop analogs: *AAPG Bulletin*, v. 96, p. 277-300.
8. [Pyles, D.R.](#), J.P.M. Syvitski, R.M. Slatt, 2011, Defining the concept of grade and applying it to stratal (reservoir) architecture and evolution of the slope-to-basin profile: An outcrop perspective: *Marine and Petroleum Geology*, v. 28, p. 675-697. **(Top 25 Hottest Articles, Spring 2011 as reported by Marine and Petroleum Geology)**
9. Bouroullec, R., and [D.R. Pyles](#), 2010, Sandstone extrusions and slope channel architecture and evolution: Mio- Pliocene Monterey and Capistrano Formations, Dana Point Harbor, Orange County, California: *Journal of Sedimentary Research*, v. 80, p. 376-392.
10. Tomasso, M., R. Bouroullec, [D. R. Pyles](#), 2010, The use of spectral recomposition in tailored forward seismic modeling of outcrop analogs: *AAPG Bulletin*, v. 94, p. 457-474.
11. [Pyles, D.R.](#), D. Jennette, R. Beaubouef, M. Tomasso, and C. Rossen, 2010, Concepts learned from a 3D outcrop of a sinuous slope channel complex: Beacon Channel Complex, Brushy Canyon Formation, west Texas, USA: *Journal of Sedimentary Research*, v. 80, p. 67-96.
12. Tomasso, M., R. Bouroullec, and [D.R. Pyles](#), 2010, Fieldtrip 2: Stratigraphic architecture of an interbasinal deep-water conduit, Grand Coyer sub-basin, Eocene-Oligocene Gres d'Annot Formation. In: B.A. Vining and S. C. Pickering, eds, *Petroleum Geology: From Mature Basins to New Frontiers - Proceedings of the 7th Petroleum Geology Conference*, Vol. 2. Geological Society, London, 1243 p plus DVD.
13. [Pyles, D. R.](#), 2009, Multiscale stratigraphic analysis of a structurally confined submarine fan, Carboniferous Ross Sandstone, Ireland—Reply: *AAPG Bulletin*, v. 93, p. 1710-1721.
14. [Pyles, D.R.](#), and D. Jennette, 2009, Process and facies associations in basin-margin strata of structurally confined submarine fans: Example from the Carboniferous Ross Sandstone (Ireland): *Marine and Petroleum Geology*, v. 29, p. 1974-1996. **(Top 25 Hottest Articles, Fall 2009 as reported by Marine and Petroleum Geology)**
15. Pyles, D., 2009, Sandstone, in S.E. Laubach, S.W. Tinker, eds., *Earth's Art: Celebrating the Centennial of the Bureau of Economic Geology 1909-2009*: University of Texas, Bureau of Economic Geology Special Publication, Austin, Texas, p. 2-3.
16. [Pyles, D.R.](#), and R.M. Slatt, 2009, Field trip to the Upper Cretaceous Lewis Shale and Fox Hills Sandstone of Southern Wyoming: Outcrop analog for submarine fans and deltas deposited on prograding, graded margins: *SEPM Field Trip No. 9*, June 4-6, 40 p.
17. [Pyles, D.R.](#), 2008, Multiscale stratigraphic analysis of a structurally confined submarine fan, Carboniferous Ross Sandstone, Ireland: *AAPG Bulletin*, v. 92, p. 557-587. **(WON AAPG SPOULE AND PRATT BEST PAPER AWARDS, 2010)**
18. [Pyles, D.R.](#), 2008, Stratigraphic architecture of the shelf-to-basin profile in the Lewis Shale and Fox Hills Sandstone, Wyoming: *RMAG-AAPG Field Trip*, 40 p.
19. [Pyles, D.R.](#), and R.M. Slatt, 2007, Applications to Understanding Shelf to Base-of-Slope Changes in Stratigraphic Architecture of Prograding Basin Margins: Stratigraphic Evolution of the Upper Cretaceous Lewis Shale, Wyoming, USA, in T. H. Nilsen, R.D. Shew, G.S. Steffens, J.R.J. Studlick, *Atlas of Deepwater Outcrops*: AAPG Studies in Geology 56, CD-ROM, 19 p.



20. Slatt, R.M., J. Minken, S.K. Van Dyke, [D.R. Pyles](#), A.J. Witten, and R.A. Young, 2007, Scales of heterogeneity of an outcropping leveed-channel deep-water system, Cretaceous Dad Sandstone Member, Lewis Shale, Wyoming, USA, *in* T. H. Nilsen, R.D. Shew, G.S. Steffens, J.R.J. Studlick, Atlas of Deepwater Outcrops: AAPG Studies in Geology 56, CD-ROM, 29 p.
21. [Pyles, D.R.](#), 2007, Architectural elements in a ponded submarine fan, Carboniferous Ross Sandstone, western Ireland, *in* T. H. Nilsen, R.D. Shew, G.S. Steffens, J.R.J. Studlick, Atlas of Deepwater Outcrops: AAPG Studies in Geology 56, CD-ROM, 19 p. (**WON AAPG SPROULE BEST PAPER AWARD, 2009**)
22. [Pyles, D.R.](#), and R.M. Slatt, 2007, Stratigraphy of the Lewis Shale, Wyoming, USA: Applications to understanding shelf-edge to base-of-slope changes in stratigraphic architecture of prograding basin margins, *in* T. H. Nilsen, R.D. Shew, G.S. Steffens, J.R.J. Studlick, Atlas of Deepwater Outcrops: AAPG Studies in Geology 56, p. 485-489.
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2. Gordon, G.\*, D.R. Pyles, *in press*, Flow Processes, sedimentation, and stratigraphic evolution of the submarine channel-lobe transition zone: an outcrop study: AAPG Annual Meeting.
3. Moody, J.\*, D.R. Pyles, B. Bracken, M. Kirschbaum, J. Stammer\*, K. Sendziak\*, *in press*, Relating changes in stratigraphic architecture of fluvial deposits to changes in accommodation and sediment supply, Sobrarbe and Escanilla Formations, Spain: AAPG Annual Meeting.
4. Pisel, J. R.\*, D.R. Pyles, B. Bracken, C. Rosenbaum\*, *in press*, Architecture and channel-belt clustering in the fluvial lower Wasatch Formation, Uinta Basin, AAPG Annual Meeting.
5. D.R. Pyles, J. Moody\*, G. Gordon\*, M. Hoffman\*, A. Moss-Russell\*, H. Silalahi\*, P. Setiawan\*, J. Clark, B. Bracken, C. Guzowski, *in press*, Structure-stratigraphy interactions and landscape evolution of a structurally confined basin, Ainsa Basin Spain: AAPG Annual Meeting.
6. Pisel\*, J., D. Pyles, B. Bracken, C. Rosenbaum, 2013, Architecture and Channel-Belt Clustering in the Fluvial lower Wasatch Formation, Uinta Basin, Utah: AGU Annual Meeting.
7. Pyles, D.R., J. Moody\*, G. Gordon\*, M. Hoffman\*, A. Moss-Russell\*, H. Silalahi\*, P. Setiawan\*, J. Clark, B. Bracken, C. Guzowski, 2013, Using the stratigraphic record to document tectonic-geomorphologic interactions in a foreland basin setting: outcrop study of the Ainsa Basin, Spain: AGU Annual Meeting.
8. Moody, J.\*, D.R. Pyles, 2013, The Relationship between shoreline trajectory and fluvial channel architecture, net-sand content, clustering, and connectivity in a high accommodation setting, Eocene Escanilla Formation, Ainsa Basin, Spain: GSA Annual Meeting.
9. Pederson, C.\*, P. Santi, D. Pyles, 2013, Compensational behavior of debris flow fans in Southern Colorado: GSA Annual Meeting.
10. Pisel, J. R.\*, D.R. Pyles, B. Bracken, C. Rosenbaum\*, 2013, Architecture and channel-belt clustering in the fluvial lower Wasatch Formation, Uinta Basin, Utah: GSA Annual Meeting.
11. D.R. Pyles, J. Moody\*, G. Gordon\*, M. Hoffman\*, A. Moss-Russell\*, H. Silalahi\*, P. Setiawan\*, J. Clark, B. Bracken, 2013, Structure-stratigraphy interactions in a piggyback basin setting, Ainsa Basin, Spain, GSA Annual Meeting.
12. Pyles, D.R., J. Stammer\*, K. Straub, 2013, Hydrodynamic fractionation in distributive submarine fans: Gulf of Mexico Deepwater Technical Symposium, New Orleans, LA. **(INVITED)**
13. Gordon, G\*., D.R. Pyles, D. Schwartz, 2013, Fault-controlled turbidite fairways, late Miocene and early Pliocene of Southern California: Pacific Section AAPG Annual Meeting.
14. Stammer, J.\*, D.R. Pyles, 2013, Spatial variability in facies and mineralogy in deep-water lobes of the Point Loma Formation, San Diego, CA: Pacific Section AAPG Annual Meeting.
15. Pyles, D.R., D. Jennette, A. Fleming\*, M. Sullivan, D. Schwartz, J. Stammer\*, 2013, Outcrop analogs of confined channel systems, weakly confined channel systems, and distributive channel-lobe systems, southern California: Pacific Section AAPG Annual Meeting.
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  41. Hoffman, M.A.\*, R. Bouroullec, C. Guzofski, [D. Pyles](#), J. Clark, P. Setiawan\*, J. Moody\*, H. Silalahi\*, A. Moss-Russell\*, 2010, Constraints on the timing of growth structures in a deepwater basin: Insights from stratigraphic growth indicators and three-dimensional structural modeling, Ainsa Basin, Spanish Pyrenees: AAPG Annual Meeting.
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  45. Tomasso, M., R. Bouroullec, [D. Pyles](#), 2009, The Use of Spectral Recomposition in Tailored 3-D Forward Seismic Modeling of Outcrop Analogs: AAPG Annual Meeting.
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  47. Hoffman, M.\*, R. Bouroullec, C. Guzofski, [D. Pyles](#), J. Clark, P. Setiawan\*, J. Moody\*, H. Silalahi\*, A. Moss-Russell\*, 2009, Tectono-stratigraphic analysis of a deep-water growth basin, Ainsa Basin, northern Spain: AAPG Annual Meeting.
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56. Silalahi, H.S.M.P.\*, D. R. Pyles, R. Bouroullec, D. Anderson, J. Clark, S. Sonnenberg, 2008, Stratigraphic architecture of slope deposits associated with prograding margins, Sobrarbe Formation: Ainsa Basin, Spain, AAPG Search and Discovery Article #90083.
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58. Tomasso, M., R. Bouroullec, D. R. Pyles, 2008, Bridging the scale gap: Geological and seismic forward modeling of outcrop data: International AAPG Annual Meeting.
59. Bouroullec, R., D. R. Pyles, 2008, The channel stacking matrix: A new method to relate deep-water channel stacking pattern to reservoir parameters: AAPG International Annual Meeting.
60. Pyles, D.R., D. Jennette, 2008, Geometry, depositional processes, and facies associations of basin-margin strata, Carboniferous Ross Sandstone (Ireland): Applications to reservoirs located on the margins of structurally confined fans: GSA Annual Meeting.
61. Pyles, D.R., R. Slatt, 2008, Integrating outcrop and subsurface data to define regional and reservoir-scale patterns in the Lewis Shale and Fox Hills Sandstone of the Great Divide and Washakie Basins, Wyoming: Rocky Mtn. Section AAPG Annual Meeting.
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63. Pyles, D.R., J. P. M. Syvitski, R. Slatt, 2008, Applying the concept of grade to basin-scale stacking patterns and stratigraphic architecture along the shelf to basin profile: From outcrop perspective: AAPG Annual Meeting. **(INVITED)**
64. Pyles, D.R., R. Bouroullec, D. Jennette, 2008, 3D stratigraphic architecture of distributary channel-lobe systems: Outcrop analysis of the Bridges of Ross Exposure, Carboniferous Ross Sandstone, Ireland: AAPG Annual Meeting.
65. Bouroullec, R., M. Tomasso, D. R. Pyles, 2008, Effects of syn-depositional deformation from the stratigraphic architecture of an interbasinal deep-water conduit, Grand Coyer Sub-Basin, Eocene-Oligocene, Grès d'Annot Formation, SE France: AAPG Annual Meeting.
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68. Slatt, R.M., H.A. Correa-Correa, D.R. Pyles, R.A. Young, J. Dobson, 2007, Scale constraints on constructing geological models with seismic reflection data: 3<sup>rd</sup> International Workshop on Frequency-Dependent Geophysical Properties "Rainbow in the Earth."
69. Bouroullec, R., M. Tomasso, D.R. Pyles, D. Jennette, 2007, Quantitative stratigraphic analysis of sinuous channel outcrop analogues using ground-based LiDAR: EAGE 69th Conference and Exhibition. **(KEYNOTE ADDRESS)**
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71. Amerman, R., B. Trudgill, E.P. Nelson, M.H. Gardner, P. Arbues, J. Borer, J. Clark, G. Ford, H. Ortner, D. Paton, P. Plink-Bjorklund, and D. Pyles, 2007, Comparison of deepwater mass transport complex settings: West Texas; south central Pyrenees, Spain; Northern Calcareous Alps, Austria: AAPG Annual Meeting.
72. Bouroullec, R., D.R. Pyles, D.E. Schwartz, D.C. Jennette, and F. Bonnaffe, 2007, Impact of local accommodation on the architecture and stacking patterns of three Capsitrano Formation slope channel outcrops: San Clemente, Dana Point Harbor, and Point Fermin, California: AAPG Annual Meeting.
73. Bouroullec, R., M. Tomasso, D.R. Pyles, and K. Lee, 2007, Stratigraphy of an interbasinal deep-water conduit: Lessons learned from the Grand Coyer Sub-Basin, Eocene-Oligocene Grès d'Annot Sandstone, SE France: AAPG Annual Meeting.

74. Bouroullec, R., [D.R. Pyles](#), D.C. Jennette, M. Tomasso, and F. Bonnaffe, 2007, Stratigraphic architecture and evolution of a meandering slop channel complex, Capistrano Formation, San Clemente, California: AAPG Annual Meeting.
75. Paton, D., B. Trudgill, H. Ortner, D. Medwedeff, M. Carr, [D. Pyles](#), and R. Amerman, 2007, 3D geospatial and structural modeling of a structurally complex deep-water basin; the Gosau Group, Western Calcareous Alps, Austria: AAPG Annual Meeting. (**WON TOP 10 POSTERS AT AAPG LONG BEACH**).
76. Paton, D., M. Carr, H. Ortner, B. Trudgill, D. Medwedeff, [D. Pyles](#), and R. Amerman, 2007, The influence of tectonics on temporal and spatial variations in sandbody architecture; Cretaceous Gosau Basin, Western Calcareous Alps, Austria: AAPG Annual Meeting.
77. Paton, D., E. Mortimer, J. Borer, R. Amerman, M. Carr, G. Ford, B. Trudgill, [D. Pyles](#), P. Plink-Bjorklund, , 2007, An outcrop record of complex sediment gravity flow mechanisms: AAPG Annual Meeting.
78. [Pyles, D.](#), M. Tomasso, D. Jennette, R. Beaubouef, and C. Rossen, 2007, The role of secondary flow on facies associations and stratigraphic architecture in sinuous slope channels: Concepts learned from a 3D exposure of a sinuous slope channel, Brushy Canyon Formation, west Texas: AAPG Annual Meeting.
79. Tomasso, M., [D.R. Pyles](#), F. Bonnaffe, and D.C. Jennette, 2007, 3D geological and seismic forward modeling of a confined sinuous slope channel complex, Brushy Canyon Formation, west Texas: AAPG Annual Meeting. (**WON TOP 10 TALKS AT AAPG LONG BEACH**)
80. Tomasso, M., R. Bouroullec, K. Lee, and [D.R. Pyles](#), 2007, Stratigraphic architecture of early channel-fill within an interbasinal conduit: Grand Coyer, Grès d'Annot Formation, SE France: AAPG Annual Meeting.
81. Tomasso, M., F. Bonnaffe, [D.R. Pyles](#), R. Bouroullec, D.C. Jennette, 2006, Outcrop versus seismic architecture of deep-water deposits: a slope to basin transect of the Brushy Canyon Formation, west Texas, *in* M.A. Raines, ed., Resource to Reserves, West Texas Geological Society, Publication #06-117, Fall Symposium.
82. [Pyles, D.R.](#), D. Jennette, M. Tomasso, 2006, Stratigraphic and Hydrodynamic Concepts learned from a 3D Exposure of a Sinuous Slope Channel: Beacon Channel Complex, Brushy Canyon Formation, west Texas: Chevron Subsurface Characterization Forum.
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88. Paton, D., J. Borer, B. Trudgill, R. Amerman, [D. Pyles](#), M. Carr, H. Ortner, M. Sullivan, D. Medwedeff, and J. Clark, 2006, Using 3D Geospatial Modelling to Investigate the 4D Structural Controls on the Deposition of the Gosau Deep Water Sedimentary Basin, Northern Calcareous Alps, Austria: GSA Penrose Meeting: Unlocking 3D Earth Systems: Harnessing New Digital Technologies to Revolutionize Multi-Scale Geologic Models, Durham, UK.
89. Boyce, M., R.M. Slatt, [D.R. Pyles](#), 2006, Characterization of Cretaceous Age Lewis Shale Deepwater Lobe Sands: Sanger Ranch, Washakie Basin, Wyoming: RMS-AAPG Annual meeting.



90. Bonnaffe, F., D.C. Jennette, J.R. Andrews, [D.R. Pyles](#), R. Bouroullec, and M. Tomasso, 2006, A method for acquiring and processing ground-based LiDAR data in difficult to access outcrops for use in 3-D virtual-reality models, AAPG Annual Meeting.
91. Bouroullec, R., and [D.R. Pyles](#), 2006, Large sand extrusions affecting slope channel architecture and evolution, Mio-Pliocene Monterey and Capistrano Formations, Dana Point Harbor, California: AAPG Annual Meeting.
92. [Pyles, D.R.](#), 2006, Hierarchical stacking of submarine channels and their depositional lobes in distributary landscapes, Carboniferous Ross Sandstone, western Ireland: AAPG Annual Meeting.
93. [Pyles, D.R.](#) and R. Bouroullec, 2006, Processes and facies associations in basin-margin strata of structurally confined submarine fans: example from the Carboniferous Ross Sandstone Ireland: AAPG Annual Meeting.
94. [Pyles, D.R.](#), R.T. Beaubouef, D.C. Jennette, C. Rossen, M. Tomasso, R. Lovell, A.R. Sprague, 2006, Insights into reservoir characteristics of sinuous deepwater channel fills from outcrop analogs—Part 1: Stratigraphic and sedimentologic evolution of a sinuous slope channel-fill, Beacon Channel, Brushy Canyon Formation, west Texas: AAPG Annual Meeting.
95. Seidler, Lars, J. Stewart, B.J. Fischer, C.J. Lyttle, A.R. Sprague, D. Box, J.R. Maynard, K.M. Champion, R.T. Beaubouef, [D.R. Pyles](#), 2006, Insights into reservoir characteristics of sinuous deep-water channel fills from outcrop analogs—Part 2: Testing production scenarios using outcrops as templates for geologic and reservoir simulation: AAPG Annual Meeting.
96. Tomasso, M., F. Bonnaffe, [D.R. Pyles](#), R. Bouroullec, X. Janson, R. Bouroullec, D.C. Jennette, J. A. Bellian, and C. Kerans, 2006, Application of seismic forward modeling of detailed outcrop data in improving sub-surface interpretation: AAPG Annual Meeting.
97. Tomasso, M., F. Bonnaffe, [D.R. Pyles](#), R. Bouroullec, D.C. Jennette, 2005, Outcrop versus seismic architecture of deep-water deposits: a slope to basin transect of the Brushy Canyon Formation, west Texas, British Sedimentological Research Group Annual Meeting.
98. [Pyles, D.R.](#), M. Tomasso, D. Jennette, F.L. Bonnaffe, R.T. Beaubouef, C. Rossen, 2005, Evolution of a sinuous slope channel: Beacon Channel, Brushy Canyon Formation, West Texas: BSRG Annual Meeting.
99. Tomasso, M., F. Bonnaffe, [D.R. Pyles](#), R. Bouroullec, D.C. Jennette, 2005, Outcrop versus seismic architecture of deep-water deposits: a slope to basin transect of the Brushy Canyon Formation, west Texas, 2005, Evolution of a sinuous slope channel: Beacon Channel, Brushy Canyon Formation, West Texas: BSRG Annual Meeting.
100. Tomasso, M., F.L. Bonnaffe, [D.R. Pyles](#), R. Bouroullec, D.C. Jennette, 2005, 3D visualization, characterization and interpretation of deep-water outcrop analogues using LiDAR Technology: application to stratigraphic research and teaching: BSRG Annual Meeting.
101. [Pyles, D.R.](#), 2005, Basin-Scale and Local Stacking Patterns of the Carboniferous Ross Sandstone, Western Ireland: Applications to Northern Gulf of Mexico Minibasin Reservoirs: AAPG Annual Meeting.
102. [Pyles, D.R.](#), J.P.M. Syvitski, and R.M. Slatt, 2005, Graded versus out-of-grade basin-margin morphologies and their relationship with basin-scale stacking patterns and local attributes of submarine-fan strata: lessons learned from outcrops of the Cretaceous Lewis Shale of Wyoming and the Carboniferous Ross Sandstone of Ireland: AAPG Annual Meeting.
103. Jennette, D.C., F. Bonnaffe, [D.R. Pyles](#), R. Bouroullec, M. Tomasso, 2005, Taking turbidite outcrops to the next level: 3-D visualization, characterization, and interpretation of analogs using lidar technology: AAPG Annual Meeting.
- 104. [Pyles, D.R.](#), 2004, Vertical changes in submarine-fan channel morphology related to increasing depositional area, not proximity to the shelf edge, Carboniferous Ross Sandstone, western Ireland: SEPM Research Group Meeting (INVITED)**
- 105. [Pyles, D.R.](#), 2004, On the stratigraphic evolution of a structurally-confined, submarine basin—Carboniferous Ross Sandstone, western Ireland: AAPG Annual Meeting. (BEST STUDENT PAPER AWARD)**
106. Weimer, P., R. Bouroullec, [D.R. Pyles](#), J. Roesink, H. Gonzales, J. Martin, R. Sincavage, 2004, Stratigraphic evolution of the eastern Mississippi fan: AAPG Annual Meeting.
107. Weimer, P., R. Bouroullec, J. Austin, H. Gonzales, J. Martin, R. Sincavage, [D.R. Pyles](#), V. Matt, S. Melton, 2004, Sequence stratigraphic setting of the Neogene sediments, Mississippi

- Canyon and northern Atwater Valley, northeastern deep Gulf of Mexico: Gulf Coast Association of Geological Societies Transactions, v. 54, p. 761.
108. Pyles, D.R., 2004, Stratigraphic architecture of the Carboniferous Ross Sandstone, western Ireland—applications to northern Gulf of Mexico minibasins: Newsletter of the Society of Independent Professional Earth Scientists.
  109. Pyles, D.R., 2003, How stratigraphic architecture, facies, and hydrodynamic processes change as a structurally-confined submarine-fan basin fills—proposed research for the Upper Carboniferous Ross Sandstone, western Ireland: AAPG Search and Discovery.
  110. Pyles, D.R., 2002, The temporal and spatial evolution of architectural elements and facies associations in the Carboniferous Ross Sandstone, Western Ireland—applications to the construction of reservoir models in structurally confined basins, northern Gulf of Mexico: Newsletter of the Gulf Coast Section SEPM.
  111. Pyles, D.R. and R.M. Slatt, 2002, Stratigraphic response to tectonic forcing in the Cretaceous Western Interior Seaway, Lewis Shale, south central Wyoming: RMS-AAPG Annual Meeting. **(A.I. LEVORSON AWARD FOR BEST PAPER)**
  112. Slatt, R.M., N.H. Hurley, D.R. Pyles, 2002, Lewis Shale (Wyoming and Colorado) exploration and production issues related to stratigraphy: RMS-AAPG Annual Meeting.
  113. Slatt, R.M., D.R. Pyles, C. Bracklein, R. Young, and J. Staggs, 2002, Sub-seismic scale architecture of a sinuous submarine channel complex, Lewis Shale, southern Wyoming: AAPG Annual Meeting.
  114. Weimer, P., D.R. Pyles, and S.H. Yoon, 2001, Petroleum potential of the ultra-deep water DeSoto Canyon, northeastern Gulf of Mexico: AAPG Annual Meeting.
  115. Slatt, R.M., D.R. Pyles, C. Bracklein, R. Young, and J. Staggs, 2001, Architecture of a sinuous submarine-channel complex, Lewis Shale, southern Wyoming: GSA Annual Meeting.
  116. Pyles, D.R., and R.M. Slatt, 2000, A high-frequency sequence stratigraphic framework for the Lewis Shale and Fox Hills Sandstone, Great Divide and Washakie basins, Wyoming: Rocky Mountain Section SEPM Newsletter, v. 25, no. 2, p. 1-3.
  117. Pyles, D.R., and R.M. Slatt, 2000, The Upper Cretaceous Lewis Shale of south-central Wyoming: An analog to deep-water Gulf of Mexico reservoirs: AAPG Annual Meeting.
  118. Pyles, D.R., 2000, Stratigraphic anomalies associated with a tectonically active embayment in the Cretaceous Western Interior seaway: A story of the Lewis Shale and Fox Hills Sandstone, Wyoming: Newsletter of the Colorado Scientific Society, November, p. 2-3.
  119. Pyles, D.R., and R. M. Slatt, 1999, An outcrop-based sequence stratigraphic framework for the Upper Cretaceous Lewis Shale and Fox Hills Sandstone, south-central Wyoming: AAPG Annual Meeting.
  120. Pyles, D.R., 1999, Sequence stratigraphic-based correlation strategy of the Lewis Shale and Fox Hills Sandstone, Great Divide and Washakie basins, Wyoming: AAPG Annual Meeting.

### **SPECIAL LECTURES AND WORKSHOPS**

#### **Universities**

- 2013 Colorado School of Mines: Shelf-to-basin changes in reservoir architecture in prograding margins
- 2012 Bureau of Economic Geology: Hydrodynamic fractionation of minerals and textures in submarine fans: Results from physical experiments and the stratigraphic record (with Jane Stammer\* and Kyle Straub)
- 2012 Colorado School of Mines: Quantifying the hierarchical nature of compensational stacking in submarine fans (with Kyle Straub)
- 2012 Colorado School of Mines: Hydrodynamic fractionation of minerals and textures in submarine fans: Results from physical experiments and the stratigraphic record (with Jane Stammer\* and Kyle Straub)
- 2011 California State University Chico: Quantifying the hierarchy of compensational stacking in submarine fans (with Kyle Straub)
- 2011 California State University Chico: Hydrodynamic fractionation of minerals in submarine fans: results from physical experiments and natural systems (with Jane Stammer)
- 2011 Colorado School of Mines: Quantifying the hierarchy of compensational stacking in submarine fans (with Kyle Straub)

- 2010 University of Wyoming: Defining the concept of stratigraphic grade and applying it to stratigraphic architecture of the slope-to-basin profile.
- 2010 Colorado School of Mines, AAPG Student Chapter Meeting: Defining the concept of stratigraphic grade and applying it to stratigraphic architecture of the slope-to-basin profile.
- 2010 University of Oklahoma, AAPG Student Chapter Meeting: Applying the Concept of Grade to Stratigraphic Architecture along the Shelf-to-Basin Profile—an Outcrop Perspective
- 2010 University of Oklahoma, Deepwater Workshop: (1) Hierarchical Classification of Architectural Elements in Deepwater Settings, (2) On the Relationship between Sinuosity and Symmetry in Submarine Channels, (3) Relating the Temporal and Spatial Stacking of Submarine Channels to Reservoir Characteristics, (4) Shelf-to-Basin changes in Stratigraphic Architecture of a Prograding Margin.
- 2008 University of Illinois, Bends Research Meeting: Secondary flow in sinuous slope channels, an outcrop perspective
- 2007 University of Colorado, INSTAAR Delta Force Group: Concepts learned from outcrops of sinuous slope channels
- 2006 University of Oklahoma, Geology Colloquium: Stratigraphic and hydrodynamic concepts learned from a 3D exposure of a sinuous slope channel, Brushy Canyon Formation, west Texas
- 2006 University of Oklahoma, Reservoir Characterization lecture: University of Texas at Austin, Weekly Stratigraphy Seminar: Processes and facies associations in basin-margin strata of structurally confined submarine fans: example from the Carboniferous Ross Sandstone (Ireland)
- 2006 University of Oklahoma, Geology Seminar: Applying the concept of grade to stratigraphic architecture and reservoir distribution: Lessons learned from the Cretaceous Lewis Shale of Wyoming and the Carboniferous Ross Sandstone, Ireland
- 2006 Colorado School of Mines, Van Tuyl Lecture Series, Department of Geology and Geological Engineering: Stratigraphic and hydrodynamic concepts learned from a 3D exposure of a sinuous slope channel, Brushy Canyon Formation, west Texas
- 2006 Colorado School of Mines, Petroleum Geology Lunch Lecture: Processes and facies associations in basin-margin strata of structurally confined submarine fans: example from the Carboniferous Ross Sandstone (Ireland)
- 2006 Bureau of Economic Geology, University of Texas at Austin, Weekly Colloquium: Stratigraphic and hydrodynamic concepts learned from a 3D exposure of a sinuous slope channel, Brushy Canyon Formation, west Texas
- 2005 University of Texas at Austin, Weekly Stratigraphy Seminar: Processes and facies associations in basin-margin strata of structurally confined submarine fans: example from the Carboniferous Ross Sandstone (Ireland)
- 2005 French Institute for Exploitation of the Sea: Outcrop characterization of slope channels
- 2005 University of British Columbia, Geology Lunch Lecture: Processes and facies associations in basin-margin strata of structurally confined submarine fans: example from the Carboniferous Ross Sandstone (Ireland)
- 2005 Colorado State University, Geology Lunch Lecture: Processes and facies associations in basin-margin strata of structurally confined submarine fans: example from the Carboniferous Ross Sandstone (Ireland)
- 2005 Bureau of Economic Geology, University of Texas at Austin: On the stratigraphic evolution of a structurally confined submarine basin, Carboniferous Ross Sandstone of western Ireland
- 1999 Colorado School of Mines, Denver Study Group Meeting: A high-frequency sequence stratigraphic framework for the Lewis Shale and Fox Hills Sandstone, Great Divide and Washakie basins, Wyoming

**Industry:**

- 2013 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (18 presentations on CoRE research)
- 2012 Chevron: Subsurface Characterization Forum (7 poster presentations on CoRE research)
- 2012 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (7 presentations on CoRE research)

- 2011 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (17 presentations on CoRE research)
- 2011 Chevron Sandbox Talk Series: Architectural analysis and stratigraphic evolution of a structurally confined, ponded submarine fan: Guaso I turbidite system, Spain
- 2011 Chevron: The Eocene Morillo Turbidite System (Spain): helping reduce uncertainty of subsurface data interpretation in a topographically confined deep marine basin
- 2010 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (17 presentations on CoRE research)
- 2010 Chevron: Subsurface Characterization Forum (6 poster presentations on CoRE research)
- 2009 Chevron Sandbox Talk Series: Outcrop analogs for Graded and Out-of-Grade Reservoirs in Deepwater Settings: Ainsa Basin, Spain
- 2008 Chevron Tech Talk Series: Research in the Ainsa Basin by the Chevron Center of Research Excellence
- 2008 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (16 presentations on CoRe Research)
- 2008 Chevron: Subsurface Characterization Forum (4 poster presentations on CoRE research)
- 2007 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (18 presentations on CoRE Research)
- 2007 Chevron: Subsurface Characterization Forum (3 poster presentations on CoRE research)
- 2007 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (23 presentations on CoRe Research)
- 2006 Chevron: Research results of Chevron Center of Research Excellence, Colorado School of Mines (10 presentations on CoRe Research)
- 2005 Chevron, ConocoPhillips, Encana, ExxonMobil, Marathon, Petrobras, NorskHydro, Shell, Statoil: Research results of Laser Assisted Analogs to Siliciclastic Reservoirs (LASR) Research Consortium (12 presentations summarizing LASR research results)
- 2005 ExxonMobil: Outcrop characterization of slope channels using LiDAR technology
- 2004 ChevronTexaco, ConocoPhillips, Encana, ExxonMobil, Petrobras, NorskHydro, Statoil: Research results of Laser Assisted Analogs to Siliciclastic Reservoirs (LASR) Research Consortium (10 presentations summarizing LASR research results)
- 2003 Chevron Technology Center: On the stratigraphic evolution of a structurally confined submarine basin, Carboniferous Ross Sandstone of western Ireland
- 2003 ExxonMobil Upstream Research Center: On the stratigraphic evolution of a structurally confined submarine basin, Carboniferous Ross Sandstone of western Ireland
- 2002 BP: On the stratigraphic evolution of a structurally confined submarine basin, Carboniferous Ross Sandstone of western Ireland
- 2002 BP: Proximal to distal changes in stratigraphic architecture associated with a prograding margin, lessons learned from the Lewis Shale, Wyoming
- 2000 Texaco: A high-frequency sequence stratigraphic framework for the Lewis Shale and Fox Hills Sandstone, Great Divide and Washakie basins, Wyoming