

Curriculum Vitae

Joshua Francis Dixon

The University of Texas at Austin, Jackson School of Geosciences, Dept. of Geological Sciences
1 University Station, C1100, Austin, TX 78712-0254.
jfd@utexas.edu

Research Interests

My dissertation focuses on the analysis of the architecture, stratigraphy, sedimentology of shelf-edge deltas and the connectivity between these features and other depositional systems on the adjacent slope and basin floor. Primarily through the study of outcrop examples of shelf-edge strata, my work addresses the role of processes at the shelf edge in delivery of sediment to the deep water, a fundamental step in the formation of deep-water hydrocarbon reservoirs.

Education

PhD 2008-Present The University of Texas at Austin Sedimentology and Stratigraphy

M.Geol 2004-2008 The University of Leeds Geological Sciences

Theses: “Computer simulation of the Albian Orange Basin, offshore South Africa: an investigation into the controls on local strata architecture” Supervised by D.Patton and R.Collier (2008)
 “Chronostratigraphic evolution of the Neogene Megara Basin, Central Greece” Supervised by R.Collier (2007)
 “Implications of seafloor expulsion features of the Auger Basin, deep water Gulf of Mexico” Supervised by P.Flemings (Pennsylvania State University) (2007)

Experience

- **Intern** - Shell International Exploration and Production, Clastic Research, Houston, TX
 - June-August 2010 Internal Report: ‘Basin-margin clinoform variability, Santos Basin, Brazil’
 - June-August 2009 Internal Report: ‘Stratigraphic architecture of the Champion Delta, Brunei’
- **Research Assistant** - The Jackson School of Geosciences, The University of Texas at Austin
 - August-December 2011
 - January-May 2010
 - January-May 2009
- **Teaching Assistant** - The Jackson School of Geosciences, The University of Texas at Austin
 - Sedimentary Rocks, undergraduate class (Fall 2009)
 - Clastic Depositional Systems, graduate class (Fall 2009)
 - Physical Geology, undergraduate class (Fall 2008)
- **Laboratory Assistant** – Norwest Holst Soil Engineering, Leeds, UK
 - May-August 2006

Field Experience

- Book Cliffs, UT, USA (Cretaceous clastic stratigraphy, teaching assistant) September 2011
- Book Cliffs, UT, USA (Cretaceous clastic stratigraphy, teaching assistant) June 2011
- Kookfontein Formation, Karoo Basin, South Africa (shelf-edge delta research) February-March 2011
- Kookfontein Formation, Karoo Basin, South Africa (shelf-edge delta research) January-March 2010

- Mason, TX, USA (GPS data collection, graduate coursework) November 2009
- Rock Springs, WY, USA (Cretaceous clastic stratigraphy, teaching assistant) October 2009
- Book Cliffs, UT, USA (Basin analysis, graduate coursework) April 2009
- Kookfontein Formation, Karoo Basin, South Africa (shelf-edge delta research) February-April 2009
- 20 Mile Sandstone, CO, USA (Cretaceous clastic stratigraphy, graduate coursework) September 2008
- Various locations, Cyprus (Ophiolite emplacement and basin analysis, coursework) March 2008
- Pendle Hill, Lancashire, England (Turbidite lobe architecture, coursework) February 2008
- Megara Basin, Attica, Greece (Rift basin stratigraphy, dissertation research) June-August 2007
- Book Cliffs, UT, USA (Sequence stratigraphy, coursework) September 2006
- Various Locations, Center County, PA, USA (Sequence stratigraphy, coursework) August-September 2006
- County Clare, Ireland (Basin analysis, coursework) April 2006
- County Galway, Ireland (Igneous and metamorphic geology, coursework) April 2006
- Anglesey, Wales (Structural mapping, coursework) March 2006
- Assynt, Sutherland, Scotland (Structural mapping, coursework) June 2005
- Pembrokeshire, Wales (Introduction to field methods) April 2005
- Whitby, North Yorkshire, England (Clastic Stratigraphy, coursework) October 2004

Conference/Meeting Presentations

Dixon, J.F., Steel, R.J. and Olariu, C. 2011. Sediment distribution and partitioning between the shelf edge and basin floor of a well-exposed basin margin clinoform, Tanqua Karoo Basin, South Africa. 28th IAS Meeting of Sedimentology, Zaragoza, Spain. 5th-8th July, 2011.

Dixon, J.F. and Steel, R.J. 2011 Anatomy and sequence stratigraphy of shelf to basin floor clinoforms, Tanqua Karoo Basin, South Africa. International Workshop on Sequence Stratigraphy, Beijing, China. 20th-23rd June, 2011.

Dixon, J.F. and Steel, R.J. 2011. Facies Variability in Shelf-Edge Strata of the Lower Kookfontein Formation, Tanqua Karoo Basin, South Africa: An Analog for Reservoir Heterogeneity in Shelf-Edge Settings. AAPG Annual Convention and Exhibition, Houston, TX. 10th-13th April, 2011.

Dixon, J.F. and Steel, R.J. 2010. The Shelf-Edge: criteria for its recognition in the stratigraphic record. An example from the Tanqua Karoo Basin of South Africa. The 18th International Sedimentological Congress, Mendoza, Argentina. September 26th-October 1st 2010.

Other Presentations

RioMar Consortium Meeting, Austin, TX, November 2010. The Shelf-Edge: criteria for its recognition in the stratigraphic record. An example from the Tanqua Karoo Basin of South Africa.

RioMar Consortium Meeting, Golden, CO, November 2009. Characterization of depositional and soft-deformational facies in Permian shelf-edge successions, Tanqua Karoo, South Africa.

Shell Shelf-Edge Workshop, Austin, TX, April 2009. Preliminary fieldwork results from the Kookfontein Formation, Tanqua Karoo Basin, South Africa.

Manuscripts

Dixon, J.F., Steel, R.J. and Olariu, C. (*in press*). River-dominated, shelf-edge deltas: delivery of sand across the shelf break in the absence of slope incision. Sedimentology.

Dixon, J.F. and Steel, R.J. (*in prep.*). Shelf-edge delta regime as a predictor of deep-water deposition.

Awards and Accomplishments

- AAPG Foundation Jean C. and Fred A. Dix Grant, 2011.
- Conoco Phillips Annual Fellowship, Jackson School of Geosciences, 2010-present
- President, UT AAPG Student Chapter (peer elected position) 2011-present
- General Secretary, UT AAPG Student Chapter (peer elected position) 2009-2011
- Deans Honors List, Pennsylvania State University 2006 and 2007
- Secretary, Leeds University Union Earth Sciences Society (peer elected position) 2005-2006

Professional Memberships

- American Association of Petroleum Geologists
- International Association of Sedimentologists
- Society for Sedimentary Geologists