

4th Atlantic Conjugate Margins Conference

Conference Programme

Day One Sessions

Wednesday, August 20

- 8:00 a.m. Welcome
- 8:05 a.m. Opening Message from Honorable Derrick Dalley, the Minister of Natural Resources, Government of Newfoundland and Labrador

Keynote Speaker

- 8:15 a.m. Inter-Relationship between Tectonic, Magmatic and Sedimentary Processes during Hyperextension and Lithospheric Breakup: The Lesson from the Tethys and Iberia-Newfoundland Rifted Margins and Its Application to the North and South Atlantic Margins
Gianreto Manatschal

Session One: Geodynamics

Co-Chairs: Ian Atkinson, *Nalcor Energy – Oil & Gas* and Michael Enachescu, *Euxinic Exploration*

In memoriam: Dr. Surat “Shiri” Srivastava

- 8:45 a.m. Continental Rifts: Lateral Strength Contrasts in the Lithosphere as a Mechanism for Localizing Necking Instabilities and Deformation
Stefanie Wenker, Christopher Beaumont
- 9:10 a.m. Depth-Dependent Extension, Two-Stage Breakup and Depleted Lithospheric Counterflow at Rifted Margins
Ritske S. Huismans, Christopher Beaumont
- 9:35 a.m. Assessing the Influence of Orogenic Inheritance on the Architecture and Temporal Evolution of Hyper-Extended Rift Systems: A Combined Structural and Numerical Modelling Approach
Pauline Chenin, Gianreto Manatschal, Luc Lavier

10:00 a.m. Refreshment Break

Keynote Speaker

- 10:15 a.m. Birth and Development of Continental Margin Basins: Analogies from the South Atlantic, North Atlantic and the Red Sea
Webster Mohriak

Session Two: Geodynamics/Rift Systems

Co-Chairs: Grant Wach, *Dalhousie University* and Paul Sylvester, *Texas Tech University*

- 10:45 a.m. Continental Margin Syn-Rift Salt Tectonics, Part 1: Intermediate Width Margins
Janice Allen, Christopher Beaumont
- 11:10 a.m. Architecture of West Gondwana prior to the South Atlantic Opening in the Rio De Janeiro-Benguela Transform Zone
Julio Almeida, Monica Heilbron, Fatima Dios, Michael McMaster
- 11:35 a.m. Evidence for Hyper-Extended Continental Crust in the East Orphan Basin from Seismic Reflection Data and Potential Field Forward Modelling and Inversion
J. Kim Welford, Deric Cameron, James Carter, Richard Wright
- 12:00 p.m. Lunch & Poster Session, Exhibition, Data Rooms

Keynote Speaker

- 1:00 p.m. Emerging plays in Newfoundland and Labrador's slope and deepwater basins
Richard Wright

Session Three: Deepwater Systems/Stratigraphy

Co-Chairs: Nick O'Neill, *SLR Consulting Ireland* and Wes Foote, *Department of Natural Resources, Gov of NL*

- 1:30 p.m. The Late Carboniferous Ross Sandstone of Western Ireland: Deepwater Insights from Behind Outcrop Drilling
Andy Pulham, Peter Haughton, Pat Shannon, Colm Pearce, Ole Martinsen, Frode Hadler-Jacobsen, Simon Barker
- 1:55 p.m. Challenges in Exploring for Abrupt Margin Deep Water Turbidite Plays in the Atlantic Conjugate Margin
John R. Dribus
- 2:20 p.m. Hydrocarbon Prospectivity along the Atlantic Margin: New Results from Petroleum System Modeling in the Rockall Basin
Oliver Schenk, Olga Shtukert
- 2:45 p.m. Refreshment Break

Session Four: Petroleum Systems

Co-Chairs: Martin Davies, *SLR Consulting Ireland* and Haydon Mort, *Federal University of Pernambuco*

- 3:00 p.m. Producing Pore Pressure Profiles Based on Theoretical Models in Un-Drilled Deep-Water Frontier Basins e.g. Labrador
Sam Green, Stephen O'Connor, William Goodman, Niklas Heinemann, Alexander Edwards, James Carter, Deric Cameron
- 3:25 p.m. A Sequence Stratigraphic and Palinspastic Approach to Petroleum Potential of the Conjugate Margin of North America and North Western Africa
Jonathan D. Castell, Sarah Laird, Colin C. Saunders
- 3:50 p.m. Coastal and Deepwater Sinks of the Northern Gulf of Mexico Cenozoic Margin; Structural and Stratigraphic Controls on Deepwater Fairways
Joseph Carl Fiduk, Andy Pulham
- 4:30 p.m. Student Reception

Day Two Sessions

Thursday, August 21

Session Five A: Structural Influence on Stratigraphy

Co-Chairs: David McCallum, *Husky Energy* and Jordan Stead, *Statoil*

- 8:15 a.m. Seismic Stratigraphy of the Eastern Scotian Slope: Implications for Margin Stratigraphic and Structural Evolution
Mark E. Deptuck, Kris Kendell
- 8:40 a.m. Plate Tectonics and Organofacies: Mapping Jurassic Source Rock Types and Yields in the Palaeo-Contiguous North Atlantic
David Gardiner, Tiago Cunha, Michelle Dart, Lisa Neale, Chris Cornford
- 9:05 a.m. Upper Jurassic Reservoir and Source Rocks, Age and Sequence Stratigraphy in the Terra Nova Oilfield, Jeanne d'Arc Basin
I.K. Sinclair, N. Emberley, L.A. Riley, N.R. Ainsworth, D. Stewart, D. McIlroy
- 9:30 a.m. Lower Jurassic Organic-Rich Intervals along the Central-Northern Atlantic Margin
Ricardo L. Silva, Grant Wach

Session Five B: Geodynamics

Co-Chairs: Adauto Neto, *Federal University of Pernambuco* and Kim Welford, *Department of Natural Resources, Gov of NL*

- 8:15 a.m. East Coast Magnetic Anomaly: Constraints, Models and Questions
Karen Connors, Lynn Pryer
- 8:40 a.m. Offshore Algarve (SW Iberia): Hints of Transition to a Possible Oceanic Crust from Seismic, Gravimetric, and Magnetic Interpretation
R. Rocca, C. Giraldo, W. Hermoza, B. Amigo, C. Martinez, H. Welsink, A. Arnáiz, Y. Malmcrona, C. Rosales, R. Baudino, A. Martín-Monge, O. Fernandez, L. Cascone, A. Olaiz, C. García-Mojonero

- 9:05 a.m. 3D Stratigraphic Model and Correlation of the Paraná-Etendeka Province, South Atlantic Margin: Implications for Understanding Volcanic Margin Rift History
Breno Waichel, Evandro Lima, Lucas Rossetti, Adriano Viana, Dougal A. Jerram, Claiton Scherer, Gilmar Bueno
- 9:30 a.m. New Insights into Conjugate Margin Development from a Global Deep Seismic Reflection Dataset
Ken McDermott, Brian W. Horn, Jim Pindell, Rod Graham, Paul Bellingham

9:55 a.m. Refreshment Break

Session Six A: Petroleum Systems

Co-Chairs: Erin Gillis, *Nalcor Energy – Oil & Gas* and David Norris, *Husky Energy*

- 10:10 a.m. Petroleum Systems and Risk Elements of the Central Atlantic Margin - Offshore Eastern Canada
Grant Wach, Leslie Eliuk, Ricardo L. Silva, Yawooz Kettanah, Carla Dickson, Darragh O'Connor, Trevor Kelly, Taylor Campbell, Carlos Wong, Natasha Morrison, Naomi Plummer
- 10:35 a.m. Go Deep – Status of Exploration Offshore Ireland and a Major New Seismic Survey
Michael Hanrahan, Clare Morgan
- 11:00 a.m. Carson Basin, Offshore Newfoundland: An Underexplored Basin with Significant Petroleum Potential
Michael Enachescu, John Hogg
- 11:25 a.m. Application of CSEM along the Conjugate Margin
Svein Ellingsrud

Session Six B: Volcanic Margins

Co-Chairs: Leona Stead, *Nalcor Energy – Oil & Gas* and John Hogg, *Skybattle Resources*

- 10:10 a.m. Comparisons between the Deep Crustal Structure of Magma-Poor and Volcanic Passive Margins
Pedro Victor Zalán
- 10:35 a.m. The Crustal Structure of the Norwegian Continental Margin - Comparison of Refraction Seismic and Other Geophysical Data Sets
Sofie Gradmann, Gwenn Peron-Pinvidic
- 11:00 a.m. Complexity of Pre- and Early Volcanism in NAIP
Jim á Horni, Uni E. Ártíng
- 11:25 a.m. Construction of Magmatic Rifted Margins in the North Atlantic Volcanic Province
David G. Quirk, Alastair Shakerley, Matthew J. Howe

12:00 p.m. Lunch & Poster Session, Exhibition, Data Rooms

Session Seven A: Structural Influence on Stratigraphy

Co-Chairs: David Brown, *C-NSOPB* and Jody Hodder, *Suncor Energy*

- 1:00 p.m. Araripe Basin, NE Brazil: A rift basin implanted over a previous pull-apart system?
Tiago Siqueira de Miranda, Osvaldo Correia Filho, José Ricardo Gonçalves Magalhães, José Antonio Barbosa, Márcio Lima Alencar
- 1:25 p.m. Sourceland Controls on Reservoirs Sandstones in NE Atlantic Margin Basins: Filling in the Blanks?
S. Tyrrell, D. Chew, J.S. Daly, X. Monteys, N. Cogné, P.M. Shannon, P.D.W. Haughton, S. Evans-Young, K. Sun
- 1:50 p.m. Revised Stratigraphic Framework of the Labrador Margin through Integrated Biostratigraphic and Seismic Interpretation, Offshore Newfoundland and Labrador
Nigel R. Ainsworth, Haydon W. Bailey, Keith Gueinn, Leslie A. Riley, James Carter, Erin Gillis
- 2:15 p.m. US East Coast: From Regional Framework to FTG Applicability Evaluation
Vsevolod Egorov, Feargal Murphy, Paul Versnel, Romain Pujardieu, Chris Anderson

Session Seven B: Geodynamics

Co-Chairs: Steven Ings, *ExxonMobil* and Sam Green, *Ikon Science*

- 1:00 p.m. Basement Control on Strain Localisation during Greenland-Canada Breakup
Lynn Pryer, Karen Connors
- 1:25 p.m. Is there a Relationship between Mantle Serpentinization and Compressional Deformation on the NE Atlantic Margin?
Margaret Stewart, Geoff Kimbell, Howard Johnson, John R. Hopper, Thomas Funck, Sofie Gradmann, Claudia Haase, Gwenn Peron-Pindivic, Pat Shannon, NAG-TEC Workgroup
- 1:50 p.m. Uplift Along Atlantic Margins, Changes in Plate Motion and Mantle Convection
Peter Japsen, Paul F. Green, James A. Chalmers, Johan M. Bonow
- 2:15 p.m. A Re-Evaluation of the Exploration Potential of the Baffin Bay and the Labrador Sea Based on a New Deformable Plate Reconstruction
Richard Whittaker, Bridget Ady
- 2:40 p.m. Refreshment Break

Session Eight A: Structural Influence on Stratigraphy

Co-Chairs: Craig Rowe, *C-NLOPB* and Clare Morgan, *DCENR, Government of Ireland*

- 2:55 p.m. Labrador Sea to Greenland: Structural-Stratigraphic Interpretation and Seismic Facies Analysis Provide Further Understanding of the Depositional and Tectonic Evolution of the Basin
K. Hernon, M. Dediu, F. Winter, M. Lemberger, P. Conn

- 3:20 p.m. Late Jurassic to Early Cretaceous Structural Development of the Celtic Sea Basin Offshore Ireland Based on New 3D Seismic Acquisition
Paul Griffiths
- 3:45 p.m. Linking Regional Tectonic Events with the Stratigraphic Succession and Subsidence History of Orphan Basin, Offshore Newfoundland, Canada
Lynn T. Dafoe, Charlotte E. Keen, Kate Dickie, Graham L. Williams
- 4:10 p.m. History, Character, and Implications of Fault Growth in the Terra Nova Oilfield, Jeanne d'Arc Basin
A. Newell, I.K. Sinclair, N. Emberley, A.P. Morris, R.N. McGinnis, D.A. Ferrill

Session Eight B: Provenance

Co-Chairs: Michael Hanrahan, *DCENR, Government of Ireland* and Richard Wright, *Nalcor Energy – Oil & Gas*

- 2:55 p.m. First Cycle Supply to the Cretaceous Scotian Basin Resolved Using Pb-Isotopes in Detrital K-Feldspar Grains
Shane Tyrrell, Georgia Pe-Piper, David J.W. Piper
- 3:20 p.m. Mineralogy, Texture, and Provenance of Kimmeridgian Hydrocarbon Source Rocks in the Flemish Pass Basin and Central Ridge, Offshore Newfoundland, Canada
Matthew W. Scott, Paul J. Sylvester
- 3:45 p.m. Stratigraphic Distribution Mapping in the North-East Atlantic
J. C. Doornenbal
- 4:10 p.m. Geology and Petroleum Exploration Play Concepts of the Central Atlantic Conjugate Margins (Nova Scotia – Essaouira-Agadir): Similarities and Differences
Atika Karim, Abdellah Ait Salem, Mohamed Hssain and Haddou Jabour

7:00 p.m. [Gala Reception](#)

Day Three Sessions

Friday, August 22

Keynote Speaker

- 8:00 a.m. Geodynamic Models of Magma-Poor Rifted Margins: Application to the Newfoundland-Iberia Conjugate System
Steven Ings

Session Nine: Geodynamics

Co-Chairs: Jeremy Hall, *Memorial University* and Eric Albrechtsons, *Suncor Energy*

In memoriam: Dr. Harold "Hank" Williams

- 8:30 a.m. New Deformable Plate Reconstructions Coupled with Palaeogeographic Mapping and Palaeo-Earth Systems Based Source Facies Predictions: Implications for the Prospectivity of Atlantic Margin Basins
Jim Harris, John Watson, Alexandra Ashley, Simon Otto, Sarah Payne, Ros Preston, Rob Crossley, Carl Watkins, Mike Goodrich, Paul Valdes, Jon Hill, Peter Allison
- 8:55 a.m. Comparative Uppermost Jurassic to Lowermost Cretaceous Formation and Fill of Conjugate Iberia-Newfoundland Basins
T.M. Alves, I.K. Sinclair
- 9:20 a.m. Influence of Gulf of Mexico on Southeast North American Margin: Why is Florida Still Attached?
Erin K. Beutel

9:45 a.m. Refreshment Break

Keynote Speaker

- 10:00 a.m. An overview of the NAG-TEC Atlas project
John Hopper

Session Ten: Northeast Atlantic Margins

Co-Chairs: John Cody, *Statoil* and Keith Byrne, *Providence Resources*

- 10:30 a.m. Mapping the Crust in the Northeast Atlantic Ocean: A Comparison of the Conjugate Margins
Thomas Funck, John R. Hopper, Wolfram H. Geissler, Rader Abdul Fattah, Ögmundur Erlendsson, Carmen Gaina, Joanna Gerlings, Sofie Gradmann, Claudia Haase, Geoffrey S. Kimbell, Kenneth G. McDermott, Gwenn Peron-Pinvidic, Uni Petersen, NAG-TEC Workgroup
- 10:55 a.m. 3D Partitioning of Deformation and Magmatism in a V-Shaped Propagating Hyper-Extended Rift System: Examples from the Southern North Atlantic
Michael Nirrengarten, Gianreto Manatschal, Nick Kuszniir
- 11:20 a.m. Igneous Geochemistry from the Faroe-Shetland Basin and the Davis Straights: An Insight into the Opening of the North Atlantic
David Riley, Mike Norry, Ceri Roach, Barry Lees, Tim Pearce

11:45 p.m. Lunch & Poster Session, Exhibition, Data Rooms

Keynote Speaker

- 12:45 p.m. Plate Kinematics of the Bay of Biscay and Pyrenean Domain
Jean Claude Sibuet

Session Eleven: Geodynamics

Co-Chairs: James Carter, *Nalcor Energy – Oil & Gas* and Janis Rose, *Chevron*

- 1:15 p.m. Investigating the Lithosphere Underneath the Orphan Basin prior to, and during, Rifting; the Newfoundland Margin, Eastern Canada
M. Gouiza, J. Hall
- 1:40 p.m. Volcanic Structures (Syn-Rift and Post-Rift) in Pernambuco Basin, NE Brazil - 2D Seismic Data
Bruno Varela Buarque, José Antônio Barbosa, José Ricardo Gonçalves Magalhães, Jefferson Tavares Cruz Oliveira
- 2:05 p.m. Bottom Current Activity as Indicator of Established Lithospheric Breakup
Duarte M. Soares, Tiago M. Alves, Pedro Terrinha
- 2:30 p.m. Refreshment Break

Session Twelve: Petroleum Systems and Rifting

Co-Chairs: John Hopper, *GEUS* and Deric Cameron, *Nalcor Energy – Oil & Gas*

- 2:45 p.m. Shale Diagenesis and its Impact on Pore Pressure Prediction: A Case Study along the NE Margin of Eastern Canada
A. Edwards, S. Green, S. O'Connor, W. Goodman, A. Emery, N. Heinemann
- 3:10 p.m. Development of Extension Over Time During Rifting of the Jeanne d'Arc Basin, Offshore Newfoundland
Caroline McIlroy, Jeremy Hall
- 3:35 p.m. Paleoenvironmental Changes During South Atlantic Rifting: New Well Data from the Pernambuco Basin
Iraclécia Gomes de Araújo, Mário de Lima Filho

Closing Session

- 4:00 p.m. Student Awards
Closing Remarks
Hand Over Presentation to 2016 ACM Conference Organizers