



Salt Tectonics: Understanding Rocks that Flow

29-31 October 2019

The Geological Society, London

Day One	
	Registration
09.15	Welcome
09.30	Salt Tectonics Overview Christina Von Nicolai, <i>BP</i>
	Session One: Regional – North Sea
10.00	The Isolde prospect: predicting trap relief in the CNS diapir perched flap play Graham Goffey, <i>Soliton Resources Limited</i>
10.25	Fault inversion and salt tectonics: structural development of the Lindesnes Ridge, Central North Sea Hugh Anderson, <i>Aker BP</i>
10.50	Break
11.20	Salt-Sediment interactions during the tectonic evolution of the Southern Permian Basin, Offshore Netherlands Jade Metcalfe, <i>University of Leeds</i>
11.45	Relationships between pre-salt and post-salt fault systems and salt structural trends in the Southern North Sea basin Anna D. Preiss, <i>Royal Holloway, University of London</i>
12.10	Kinematics of multi-stage salt diapirs in the Southern North Sea Gerardo Gaitan, <i>Royal Holloway, University of London</i>
12.35	Lunch
	Session Two: Regional – Europe
14.00	Keynote: Remnant allochthonous salt in the fold and thrust belt of Haute Provence Rod Graham, <i>Imperial College London</i>
14.35	Compressional salt tectonics in the inversion of a rifted margin: field case studies from the South Pyrenean fold-and-thrust belt and insights from 2D numerical modelling Laura Burrel, <i>Universitat Autònoma de Barcelona</i>
15.00	Influence of salt tectonics on the subalpine chains of SE France under extensional, strike-slip and compressional regimes Samuel Brooke-Barnett, <i>Imperial College London</i>
15.25	The effects of salt tectonics in the evolution of a fold and thrust belt, Southern Subalpine Chains, France Lajos Adam Csicssek, <i>Imperial College London</i>
15.50	Break



16.10	Keynote: Salt tectonics in the west Iberian margin: new insight from Jurassic passive diapirs exposed in the Lusitanian Basin Berta Lopez-Mir, <i>CASP</i>
	Regional salt tectonics in the Balearic and Provençal-Liguro deepwater basins of the Western Mediterranean Messinian salt Basin Victoria Mianaekere, <i>Royal Holloway, University of London</i>
	Intrasalt Structure and Strain Partitioning In Layered Evaporites: Insights From The Messinian Salt In The Eastern Mediterranean Sian Evans, <i>Imperial College London</i>
	Salt Tectonics characterization of the Offshore Tarfaya Basin, NW Africa Rodolfo Uranga, <i>University of Barcelona</i>
	Finish
	Wine Reception

Day Two	
	Registration
	Welcome
	Session Three: Regional – Americas
09.10	Keynote: Extensional versus salt-evacuation origin for the Albian Gap of the Santos Basin, Brazil Mark Rowan, <i>Rowan Consulting Inc</i>
09.45	Base-Salt Relief Controls on Salt-Tectonic Structural Style, São Paulo Plateau, Santos Basin, Brazil Leonardo M. Pichel, <i>Imperial College London</i>
10.10	Geodynamic modelling of salt movement: a 2D example from Santos Basin, Southeast Brazil Márcio Rodrigues de Santi, <i>Tecgraf PUC-Rio Institute</i>
10.35	Salt Styles and Their Controls in Santos and Campos Basins, Brazil Shamik Bose, <i>ExxonMobil</i>
11.00	Break
11.30	Tectono-sedimentary framework of a Permian salt formation in the northern Peruvian fold-and-thrust belt Emilio Carrillo, <i>Yachay Tech University</i>
11.55	Passive and reactive diapir growth and carbonate sedimentation in the Sureste Basin, SE Mexico and the Basque-Cantabrian Basin, NE Spain Peter Gutteridge, <i>Cambridge Carbonates</i>
12.20	Salt Tectonics in the Eagle Basin, Colorado: A New Example of Thick-Skinned Shortening of Salt Walls and Minibasins Bruce Trudgill, <i>Colorado School of Mines</i>



12.45	Lunch
	Session Four:
14.00	TGS: Seismic Workshop
15.30	Break
16.00	Discussion: Salt beyond Oil and Gas – A discussion around opportunities to apply knowledge gained for, but outside of, the shadow of a declining industry
17.00	Finish

Day Three	
	Registration
	Welcome
	Session Three:
09.10	Hydrating anhydrite under stress: Implications for the mobility of rock salt in the subsurface <i>Johanna Heeb, Curtin University</i>
09.35	Response of a viscous layer of finite thickness to surface loading and its applications to incipient salt tectonics <i>Martin P. J. Schöpfer, University of Vienna</i>
10.10	Investigating controls on salt movement in extensional settings using finite-element modelling <i>James Hamilton-wright, BP</i>
10.25	Applying State-of-the-Art 3D Geomechanical Forward Modelling to Problems in Salt Tectonics <i>Dan Roberts, Rockfield, Ethos</i>
10.50	Break
11.20	Revealing the control of salt tectonics on possible migration pathways by combining sea bed anomaly mapping and basin modeling <i>Ayberk Uyanik, Turkish Petroleum Corporation</i>
11.45	From salt rock physics to depth imaging: Seismic forward modelling of Levant and West-Sardinia basins <i>Luca Samperi, University of Perugia</i>
12.10	Large-transport thrusts in salt bearing fold and thrust belts: Insights from analog modeling & comparison with case studies <i>Fernando Borràs, Universitat de Barcelona</i>
12.35	Best practice structural modelling and kinematic algorithms used for validation and restoration in salt basins <i>Freya Marks, Petroloeuem Experts</i>
12.50	Lunch
	Session Four:



14.00	New Mapping of El Gordo Diapir and Sedimentary Architecture of Halokinetic Sedimentary Sequences (Ancient Outcrop Case Study in North East Mexico) Ramon Lopez Jimenez, <i>Consultant</i>
14.25	Four-dimensional Variability of Halokinetic Sequence Architecture Leonardo Muniz Pichel, <i>Imperial College London</i>
14.50	Halokinetic Controls on the Evolution of Shallow Marine Facies Architecture: Insights from the Upper Jurassic Fulmar Formation, United Kingdom Continental Shelf James Foey, <i>Keele University</i>
15.15	Calibrating the kinematics of a thick salt sheet using fluid escape pipes and natural strain markers Chris Kirkham, <i>University of Oxford</i>
15.40	Break
16.10	Halokinetically influenced deep-water successions; examples from seismic scale outcrops Zoë Cumberpatch, <i>University of Manchester</i>
16.35	Syn-halokinetic carbonate platforms and clastic deltas: 3D seismic examples offshore Gabon Paolo Esestime, <i>Spectrum Geo</i>
17.00	Closing remarks
17.25	Finish

Posters	
	Semi-automated fault mapping beneath a regional salt layer using seismic attributes and raster tracing techniques Anna Preiss, <i>Royal Holloway, University of London</i>
	Diapirism in the Betic-Rif Foreland: The Wedge-Top Basins of the SW Iberian and NW Moroccan Margins. Preliminary results Debora Duarte, <i>Royal Holloway, University of London</i>
	The Esperança Diapiric Ridge: Late Miocene-Quaternary compressional reactivation of a Salt Nappe in the Eastern Deep Algarve Basin, SW Iberian Margin Debora Duarte, <i>Royal Holloway, University of London</i>
	Impact of early salt tectonic processes on post-Permian Basin evolution and Mesozoic petroleum systems in the Southern North Sea Christopher Brennan, <i>Royal Holloway, University of London</i>