



# Salt Tectonics: Understanding Rocks that Flow

29-31 October 2019

The Geological Society, London

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



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

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



15.30	Break
16.00	Discussion: <i>Salt beyond Oil and Gas – A discussion around opportunities to apply knowledge gained for, but outside of, the shadow of a declining industry</i>
17.00	Finish

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



14.50	<b>Calibrating the kinematics of a thick salt sheet using fluid escape pipes and natural strain markers</b> Chris Kirkham, <i>University of Oxford</i>
15.15	<b>Break</b>
15.40	<b>Halokinetically influenced deep-water successions; examples from seismic scale outcrops</b> Zoë Cumberpatch, <i>University of Manchester</i>
16.05	<b>Syn-halokinetic carbonate platforms and clastic deltas: 3D seismic examples offshore Gabon</b> Paolo Esetime, <i>Spectrum Geo</i>
16.35	Closing remarks
17.00	<b>Finish</b>

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