

<b>DAY 1</b>	<b>TUESDAY 12<sup>th</sup> MAY 2020</b>
	* presenting author. Affiliation shown for lead (presenting) author only
<b>8.50</b>	<b>Introduction and Welcome: Cathy Hollis</b>
<b>Session 1</b>	<b>Sedimentological evaluation of carbonate platforms</b>
	<b>Chair: Peter Burgess</b>
9.00	Morphology and Depositional Architecture of a Miocene Carbonate Platform, Central Luconia: An Insight from wave pattern analysis  Muhammad Hanif Haziq*, D.A. Uli, Dr. Z. Z. T. Harith, M.M.H. Mohammad, G. Primadani, A. Kolupaev, S.Fun, Z.Mohammad, G. Primadani & J. Margotta  <i>Beicip-Franlab, Asia</i>
9.20	Sedimentary evolution and vertical movements of Cenomanian to Santonian carbonate platforms in Iberia  Nicolas Saspiurry*, Simon Andrieu, Marine Lartigau, Benoit Issautier, Paul Angran, Eric Lasseur and Tiago M. Alves  <i>Université Bordeaux Montaigne, France / University of Cardiff, UK</i>
9.40	Seismic-scale coral carpets on a mixed carbonate-siliciclastic shelf; a sedimentological study from the Lower Cretaceous of NW Africa  Orrin Bryers*, Jonathan Redfern, Luc Bulot & Aude Duval-Arnould  <i>University of Manchester, UK</i>
10.00	Geometric changes of carbonate platforms through the Miocene and implication to changes in modes of production; Eratosthenes Seamount, Eastern Mediterranean  Or Bialik*, Thomas Lüdmann, Yizhaq Makovsky, Giovanni Coletti, Aaron Meilijson, Nicolas Waldmann, Axel Ehrhardt, Christian Hübscher, Christian Betzler  <i>University of Hamburg, Germany / University of Haifa, Israel</i>
10.20	A 3D Outcrop and Laboratory Study of a Jurassic Carbonate Ramp: the Hanifa Formation, Central of Saudi Arabia  Ahmad Tayeb*, John Howell, Alexander Brasier, Mohammed Khalil  <i>University of Aberdeen, UK</i>
<b>10.40</b>	<b>BREAK</b>
<b>Session 2</b>	<b>Sedimentological processes</b>
	<b>Chair: Stephen Lokier</b>
11.00	Along-strike sedimentological variability of calcareous tempestites  Thomas Haines*, Joyce Neilson  <i>Independent / University of Aberdeen, UK</i>
11.20	Sedimentological study of Miocene coral carbonate facies in the Syracuse area (Sicily)  Claudia Morabito*  <i>University of Ferrara, Italy</i>

- 11.40 Spatial self-organization and autogenic dynamics of peritidal carbonate system: insights from stratigraphic forward modelling  
Haiwei Xi\* and Peter Burgess  
*University of Liverpool, UK*
- 12.00 Tracing the origins of marine epiphytic environments: new insights from Upper Triassic shallow water carboantes of the Yukon, Canada  
Nicolo del Piero\*, Sylvain Regaud, Rossana Martini  
*University of Geneva, Switzerland*
- 12.20 Sensitivity Analysis of the Amplitude of Early Cretaceous Short-Term Eustatic Changes Using Forward Stratigraphic Modelling (Resolution Guyot, Mid-Pacific Mountains)  
Mahmoud El Yamani\*, Cedric M. John, and Rebecca E. Bell  
*Imperial College, University of London, UK*
- 12.40 LUNCH, POSTERS AND BREAK OUT DISCUSSIONS**
- Session 3 Microbial and non-marine carbonates**
- Chair: Rachel Wood**
- 13.30 Analysing statistical properties and heterogeneity of Holocene freshwater dolomites from Hungary using CT data  
Nour Alzoubi\*, Sandor Gulyas, Janos Geiger  
*University of Szeged, Hungary*
- 13.50 Microbial versus abiotic controls on Mg- and Ca-carbonate precipitation and diagenesis: Insights from a modern hydromagnesite-magnesite playa, Atlin, BC, Canada  
Tom Kibblewhite\* Emily Junkins, Fiona Whitaker, and Bradley Stevenson  
*University of Bristol, UK*
- 14.10 Deposition of the pre-Salt microbialite in the Kwanza Basin, Angola  
Nathan Rochelle-Bates\*, Stefan Schroeder, Richard Dixon  
*University of Manchester, UK*
- 14.30 Depositional environment and diagenesis in the Barra Velha Formation deposits at Brazilian pre-salt: new insights from carbon and oxygen isotope analyses  
JP Gomes\*, A.C.L. Sartorato, L.R. Tedeschi, S.N. Tonietto, M.E. Tucker, F.F.Whitaker  
*University of Bristol, UK / Petrobras Brazil*
- 14.50 Petrological, geochemical and morphological characteristics of modern and ancient lacustrine microbial carbonates of the Iberian Peninsula  
Connor Doyle\* Stefan Schröder, Juan Pablo Corella, Blas Valero Garces, Julia Behnson  
*University of Manchester, UK*
- 15.10 BREAK**

<b>16.00</b>	<b>Keynote:</b> Flow in porous materials: a of tale X-rays, minimal surfaces and wettability <i>Martin Blunt, Imperial College London, UK</i>
<b>17.00</b>	<b>SOCIAL AND GENERAL DISCUSSION</b>
<b>18.00</b>	<b>CLOSE</b>

**DAY 2**

**WEDNESDAY 13<sup>th</sup> MAY 2020**

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9.00	<b>Keynote:</b> The chemical history of seawater: insights from marine carbonates <b>Ashleigh Hood, University of Melbourne, Australia</b>
<b>Session 4</b>	<b>Past climates</b>
	<b>Chair: Rachel Wood</b>
10.00	The control of PO <sub>4</sub> on Neoproterozoic marine carbonates Sacha Roest-Ellis*, R. Pietzsch, O. Gaitonde, J. Strauss, J. Richardson, S. Webb B. Phillips & N. Tosca <i>University of Oxford, UK</i>
10.20	A Cretaceous alkaline lake as an analogue for the prebiotic P-cycle? Raphael Pietzsch*, Sascha Roest-Ellis, Nicholas J. Tosca <i>University of Oxford, UK</i>
10.40	Dating records of past seafloor methane emissions along the US Atlantic margin Diana Sahy* <i>British Geological Survey, UK</i>
11.00	mixing of continental water masses in the hampshire basin during meco: new insight from carbonate clumped isotopes Marta Marchegiano* and Cedric John <i>Imperial College, University of London, UK</i>
11.20	Dating carbonates with in situ U-Pb geochronology (POSTER) Nick Roberts <i>British Geological Survey, UK</i>
<b>11.25</b>	<b>BREAK</b>
<b>Session 5</b>	<b>Platform scale and fault controlled fluid flow</b>
	<b>Chair: Fiona Whitaker</b>
11.40	A method for constraining fluid advection rates on carbonate platforms using calcium and clumped isotopes Philip Staudigel* <i>University of Cardiff, UK</i>
12.00	Controls on the Localisation of Fault/Fracture Controlled Dolomitization: insights from the Derbyshire Platform, Lower Carboniferous, UK Catherine Breislin*, Cathy Hollis, Ian Millar, Vanessa Banks, James Riding <i>University of Manchester, UK</i>
12.20	High temperature fault-controlled dolomitization by convection of seawater: concept evaluation using reactive transport modelling Rungroj Benjakul*, Cathy Hollis, Hamish A. Robertson, Eric L. Sonnenthal, Fiona Whitaker

*University of Bristol, UK*

- 12.40** Reconstructing fluid circulation pathways in volcanically influenced settings: a case study from the Namibe Basin (Angola) (POSTER)

Edoardo Fiordalisi, Gustavo do Couto Pereira, Nathan Rochelle-Bates Nathan, Marta Marchegian, Cedric John, Richard Dixon, Ian Sharp, Stefan Schröder

*University of Manchester, UK*

- 12.45** **LUNCH, POSTERS AND BREAK OUT DISCUSSIONS**

**Session 6** **Marine and near surface diagenesis**

**Chair: Stefan Schroeder**

- 13.30** Biogeochemical drivers of modern carbonate firm-ground formation: Yas lagoon, Abu Dhabi

Hazel Vallack\*, Sarah E. Greene, Stephen W. Lokier, Jens Holtvoeth, Victoria A. Petryshyn, Emily N. Jenkins, Bradley S. Stevenson, Fiona Whitaker

*University of Bristol, UK*

- 13.50** Karst Geobody Extraction through the combination of Karst Characterisation Workflow and Principal Component Analysis (PCA) in Carbonate Fields of Central Luconia Province, Sarawak

Sook Fun Lim\*, D.A. Uli, A. Kumar, M.H.H. Mohammad, Z. Mohammad, Z.Z. Tuan Harith, A. Kolupaev and Y.F. Zainudain

*Beicip-Franlab, Asia*

- 14.10** Differential diagenesis caught in the act: lithological dependence of Hydrobia (gastropod) preservation in monospecific deposits from the Miocene Mainz Basin (SW Germany)

Theresa Nohl\*, Jannick Wetterich, Axel Munnecke

*Friedrich-Alexander-Universität, Germany*

- 14.30** Influence of long term exposure surfaces on the compartmentalization and distribution of microporosity in shallow water carbonates

Hugues Biltault\*, Philippe Leonide, François Fournier, Cathy Hollis, Matthieu Rousseau & Jérôme Hennuy

*University of Manchester, UK*

- 14.50** Petrophysical and Acoustic Properties of Two Middle East Reservoirs; A Comparison between Calcitic and Aragonitic Sea Deposits

Moaz Salih\*, John J.G. Reijmer, Luis A. González, and Ammar El-Husseiny

*KFUPM, Saudi Arabia*

- 15.10** **BREAK**

**Session 7** **Burial diagenesis**

**Chair: Cathy Hollis**

- 15.30 Hot and late: clumped isotopes in Middle Jurassic calcite-cemented concretions from Skye  
Richmal Paxton\*, Julian Andrews, Paul Dennis, Alina Marca  
*University of East Anglia, UK*
- 15.50 Hydrobreccias, Zebra Dolomite, and Crack-Seal Textures; Implications for the Emplacement of Fault-Controlled Dolomite  
Cole McCormick\*, Cathy Hollis, Ernie Rutter, Hilary Corlett  
*University of Manchester, UK*
- 16.10 The impact of hydrocarbon emplacement on cementation in carbonate reservoirs  
Stephen Gundu\*, Cess van der Land, Sanem Acikilan, Tannaz Pak, Shannon Flynn, Laura Galluccio  
*Newcastle University, UK*
- 16.30 Diagenetic evolution of Jurassic platform carbonates along the NE Atlantic Margin  
Nawwar Al Sinawi\*, Cathy Hollis, Stefan Schröder, Jonathan Redfern  
*University of Manchester, UK*
- 16.50 Application of Clumped Isotope Palaeothermometry to reconstruct thermal evolution of recrystallised calcite in fine-grained micrites  
Sarah Robinson\*, Cédric M. John, Annabel Dale, Mark Osborne  
*Imperial College, University of London, UK*
- 17.10 SOCIAL AND GENERAL DISCUSSION**
- 18.00 CLOSE**

**DAY 3 THURSDAY 14<sup>th</sup> MAY**

9am – 1 pm Schlumberger Petrel GPM workshop (separate registration needed)