

## Thursday, November 30th

9.00	Welcome and presentation of the Research Excellence Unit	
9.30	Gebauer Denis	<b>The Early Stages of Calcium Carbonate Mineralization at Physiological pH — Implications for Biomineralization Mechanisms</b>
10.00	Ruiz Agudo Cristina	<b>Calcium carbonate crystallization driven by engineered protein</b>
<b>10.30</b>	<b>Coffee break</b>	
11.00	Avaro Jonathan	<b>Stability of amorphous calcium carbonates precursors — a novel phase diagram for aqueous CaCO<sub>3</sub></b>
11.30	Rodriguez Navarro Carlos	<b>Particle-mediated growth of Portlandite</b>
12.00	Madeja Benjamin	<b>Nucleation of Portlandite</b>
12.30	Alvarez Lloret Pedro	<b>Microstructural characterization during mineral replacement reactions using 2D X-ray diffraction</b>
	<b>Lunch Break</b>	
15.00	Putnis Christine	<b>Nanoscale imaging of reactions at the mineral-fluid interface</b>
15.30	Wolthers Mariette	<b>Calcite dissolution kinetics and mechanism depend on solution stoichiometry</b>
16.00	Janou	<b>Computing the water dynamics for nonstoichiometric calcite surfaces</b>
16.30	Ruiz Hernandez Sergio	<b>Molecular dynamics simulations of bio-active phosphate-based glass surfaces</b>
<b>17.00</b>	<b>Coffee break</b>	
17.30	Curti Enzo	<b>Implementing baryte nucleation/precipitation kinetics and radium uptake at the pore level using the Lattice-Boltzmann method</b>
18.00	di Tommaso Devis	<b>Simulations reveal the role of composition into the atomic-level flexibility of bioactive glass cements</b>
18.30	Rodriguez-Sanchez Jesus	<b>Rheological and long-term indentation creep properties of calcium carbonate cements</b>
<b>20.30</b>	<b>Dinner at the Carmen de la Victoria</b>	

## Friday, December 1st

9.00	Fernandez Diaz Lurdes	<b>Nanotopographic features of Ca-carbonate biominerals and gel-grown biomimetic aggregates: Assessment of crystal growth mechanisms</b>
9.30	Rodriguez Navarro Alejandro	<b>Influence of environmental gradients along the coast of Chile on mollusk shell calcification</b>
10.00	Henehan Michael	<b>Elemental impurities in Calcite, and their Importance in Understanding Past Climates: Problems and Prospects</b>
<b>10.30</b>	<b>Coffee break</b>	
10.00	Jimenez Lopez Concepción	
11.30	Ramírez Rodriguez Gloria Belén	<b>Biomineralization of recombinant collagen enhances mesenchymal stem cell interaction and differentiation</b>
12.00	Astilleros Jose Manuel	<b>The Role of Epitactic Overgrowth on the Development of Replacement Processes in Mineral – Aqueous Solution Systems</b>
12.30	Forjanés Pablo	<b>The Formation of (Ca,Sr)CO<sub>3</sub> and (Ca,Ba)CO<sub>3</sub> after the Interaction of Calcite with Ba-bearing and Sr-bearing Aqueous Solutions under Diagenetic Conditions.</b>
	<b>Lunch Break</b>	
15.00	Putnis Andrew	<b>Hydration of dry rocks in the lower crust: the problem of density change.</b>
15.30	Garrido, Carlos	<b>Carbonation of Peridotite by CO<sub>2</sub>-rich Fluids: Insights from Listvenites in the Advocate Ophiolite (Newfoundland)</b>
16.00	Menzel Manuel	<b>Deep carbon recycling by subduction of serpentinite-hosted ophicarbonates</b>
<b>16.30</b>	<b>Coffee break</b>	
17.00	Giampoura, Emmanouil	<b>Low temperature carbonate precipitation in serpentinite-hosted, alkaline environments: experimental and natural constraints</b>
17.30	Monasterio Guillot Luis	<b>Experimental Study of Dissolution-Carbonation of Pseudowollastonite in Hydrothermal Conditions</b>
18.00	Di Lorenzo Fulvio	<b>The carbonation of wollastonite: the model reaction to develop catalysts for the enhancement of silicate replacement by CO<sub>2</sub></b>
<b>18.30</b>	<b>Closing</b>	