

SEMINARIO ORGANIZADO POR LOS MÁSTERES DE GEOLOGÍA AMBIENTAL Y RESTAURACIÓN DE ECOSISTEMAS, Y EL PROYECTO LIFE RIBERMINE



12:30 - A Geological Journey through the 3.5 billion year record of early life in West Australia: Stromatolites and Space

13:00 - Mine Closure in Australia. History, Development and Progress

13:00 - Mine Landforms and Environmental Management. Progress within the Pilbara and Goldfields of West Australia



12:30-14:00 horas

Jueves, 19 de octubre de 2023

Salón de Actos, Facultad de Geológicas, UCM

Harley Lacy, Mine Closure Management Services, Australia

- **A Geological Journey through the 3.5 billion year record of early life in West Australia: Stromatolites and Space**

An informative talk/experience by an Ecologist-Environmental Scientist (non– palaeontologist) invited to join the WA Geological Survey, International Conference field trip (as local arid land ecologist) on a 9-day journey with Palaeontologists' from Australian, international universities and the Mars space program to inspect some of the 3.5 billion year history of life evident in the fossil (stromatolites) record of the Pilbara Region of West Australia (a geologically unique area). Palaeontologist's from global universities, and representatives from China and NASA made up the group.

- **Mine Closure in Australia; History, Development and Progress**

We will discuss mine closure and the process and evolution toward systematic mine closure planning in Australia, and our influence on the evolution of global mine closure practice. Harley has been a lead editor or contributor to the Australian Leading Practice Mine Closure Guidelines from 2002 to 2015 (three iterations), and a contributor to Tailings Management guidelines. He has contributed to scientific publications, presented ~40 papers, and made the equivalent number of presentations to Environmental Workshops and Science Conferences Nationally and Internationally. In 2015 he made a Keynote address to the 10th International Conference Mine Closure in Vancouver on the Leading Practice "Mine Closure" handbook, and subsequently was invited to address the Intergovernmental Forum on Mining Metals and Sustainable Development at the UN in Geneva on behalf of the Department of Industry, Innovation and Science in November.

- **Mine Landforms and Environmental Management; Progress within the Pilbara and Goldfields of West Australia**

We discuss landforms and rehabilitation benchmarking in the Pilbara and Goldfields of WA. We will present findings from that programme that was conducted by Anglo American's Kumba Iron Ore team. The group benchmarked a series of large and small mines, predominantly mining iron ore, in the Pilbara region of Western Australia, to learn from both historic and current landform closure and rehabilitation activities undertaken within this vast mineral producing province. Subjects we discuss are in relation to closure planning and land use, landform design, closure leadership and management, surface ripping techniques, local ecology and ecosystem function and primarily how to drive effective rehabilitation of mine landforms.