Life, Earth & Environment Seminar Series

When: **Wednesday 17th June, 12 – 1 pm**

Where: **Natural Resources Building, Lecture Theatre 1 (EM1)**

Processes driving aquatic biodiversity: from rocks to regions

Dr Sarah Mika and Dr Darren Ryder, UNE

Physical and biogeochemical processes influence the structure and function of aquatic ecosystems. We use examples from our current research in the Murray-Darling Basin and coastal NSW rivers to show how these processes interact across multiple scales to drive biogeochemical and biological patterns, including fish and aquatic macroinvertebrate communities. Ultimately, the dynamic nature of rivers means that we need to understand how physical processes modify habitats over time, which we quantify using geochemical fingerprinting and innovative telemetric techniques.

Biography

Darren Ryder and Sarah Mika are part of the Aquatic Ecology and Restoration Research Group at UNE. They focus on applying rigorous science to inform the management of a range of freshwater and estuarine ecosystems, as well as innovative fundamental research into how habitat structure affects distribution patterns of freshwater species.

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