

## Teaching and learning geoscience in the 21<sup>st</sup> century

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With the rapid expansion of our disciplinary knowledge, together with technologies available at the touch of a button and our growing understanding of how learning happens, teaching geoscience begs a new set of approaches and tools to use in our teaching. What does cognitive science tell us about how students develop understanding? How can we effectively incorporate technologies to help student learning? How do we challenge students to think critically, consider assumptions, and evaluate all the evidence, while also developing attributes such as team work, effective communication, and problem-solving, that will stand them in the world beyond their undergraduate years? This session aims to look at strategies consistent with current best-practices for engaging students in critical thinking and effective learning in the classroom and beyond.