

1st Australian Geoscience Teaching Workshop - Program

Tuesday, 17th Jan

5.00-7.30pm: Ice breaker - Staff Club, Level 4, Union House

DAY 1 - Wednesday 18th Jan

9:00 Welcome and Workshop Opening

Session 1 Graduate Attributes/Geoscience Curriculums

9:10 Earth and Environmental Science in the emerging Australian Science Curriculum

Len Altman

9:30 Threshold Concepts, Misconceptions and Alternative Ideas

Ian Clark

9:50 A new Earth Science curriculum at ANU

Joerg Hermann

10:10 Learning and Teaching Academic Standards for Science: Aims, Outcomes, and Adaption for the Earth Sciences

Ian Fitzsimons

10:30 *Discussion*

10:40 Morning Tea

11:00 Students becoming Geoscientists, Geoscientists becoming renowned

John Willison

11:20 Accelerating Academic Language Development

Kathryn Amos

11:40 Developing Graduate Skills in First Year Undergraduate Geoscience Students through a Problem-based Learning Strategy

Kelsie Dadd

12:00 *Discussion*

12:30 Lunch

Session 2 Improved Geoscience Teaching Facilities

1:30 Enhanced Learning in First Year Sciences: iPads and big questions

Karin Barovich

1:50 Informal Campus Learning Spaces: Do and how do students use them?

Karin Barovich

2:10 Teaching in Beautiful (and high-tech) Places – the Monash Geoscience Undergraduate Teaching Laboratories.

Marion Anderson

2:30 Vacation projects for Geoscience Students

Bob Smith

2:50 *Discussion*

3:00 Afternoon Tea

Session 3 Enhancing the First Year Experience

3:30 Something to try when you can't bear the thought of delivering another 36 lectures over 12 weeks in an introductory geology course

3:50 An extended field component to enhance the first year geology experience

4:10 Increased popularity of First Year Earth Science units: challenges and tactics

4:30 *Discussion*

5:30 End of Day Drinks - Eclipse Room

7:00 Workshop Dinner - Stag Hotel

Karin Barovich

Anne-Marie Tosolini

Mary Gee

DAY 2 - Thursday 19th Jan

Session 4 Enhancing Field Work Skills

9:00 Geosciences in an Urban (no-outcrop) environment

9:20 Photogrammetric Methods for 3D Visualisation of Geological Structures

9:40 New methods of visualisation and teaching in structural geology

10:00 Encouraging 4D cognition in structural geology teaching and learning: A group-based assessment using sand box experiments

10:20 *Discussion*

Marion Anderson

Michael Roach

Tom Blenkinsop

Timms/Almberg

10:40 Morning Tea

Session 5 Challenges for Geophysics Learning and Teaching

11:00 The Deductive Approach for Teaching Numerical Skills to Earth Science Students

11:20 The Challenge of Teaching Large Geophysics Classes

11:40 *Discussion*

Michael Roach

Graham Heinson

12:15 Lunch

Session 6 New Technology for Learning and Teaching

1:15 Let's GLOW!: Geoscience Learning in an Online World

1:35 (Im)practical portfolios? When pedagogically sound design fails in implementation

1:55 Working with your own data: a rational approach to a digital learning and research framework for Australian geology students

2:15 Using Planetary Science as a Platform for Digital Geoscience (geology & geography) in Education and Research: Project DiG2ER

2:35 *Discussion*

Pat James

Leslie Almberg

Grant Jacquier

Mark Bishop

3:00 Afternoon Tea

Session 7 Assessment

3:30 Assessing geoscience learning - making assessment a learning activity to engage and encourage

3:50 Comparison of Wiki, Peer and Self Assessment of Group Research

4:10 *Discussion*

Sandra McLaren

Mark Tingay

Session 8 Future of the AGLTN

4:30 Inaugural General Meeting of the AGLTN

4:50 *Discussion*

5:20 Workshop closing remarks

5:30 Workshop closes