



Enhanced Rock Weathering Research in Australia and New Zealand Symposium

Thursday 25 June, 2026

Room A3.003, JCU Nguma-bada campus, Smithfield, QLD

8:00 AM – 8:45 AM	Registrations open	Check-in and light refreshments available
8:45 AM – 9:00 AM	Conference Opening Formalities	Welcome, Acknowledgement of Country, Housekeeping
TIME	PRESENTER	TOPIC
9:00 AM – 9:30 AM	Keynote Speaker - Dr Annette Cowie	Reducing greenhouse gas emissions in Australia (<i>To be confirmed</i>)
9:30 AM – 10:00 AM	Keynote Speaker - Professor Paul Nelson	Enhanced rock weathering research in Australia and New Zealand: state and context
10:00 AM – 10:20 AM	Dr Euripides Kantzas, University of Sheffield	Constraints and challenges in deploying enhanced rock weathering with agriculture for CO ₂ removal at national scales: a case study for Australia
10:20 AM – 10:40 AM	Morning Tea break	Tea, coffee and morning tea available in the A3 foyer. Poster viewing session.
10:40 AM – 11:00 AM	Dr Kerryn Brent, CSIRO	Great expectations: how stakeholders see field trials contributing to responsible enhanced rock weathering
11:00 AM – 11:20 AM	Professor Balwant Singh, University of Sydney	Constraints in measuring carbon sequestration by enhanced rock weathering (<i>To be confirmed</i>)
11:20 AM – 11:40 PM	Dr Wolfram Buss, Australian National University	Organic-inorganic interactions in enhanced rock weathering: Implications for carbon dioxide removal
11:40 PM – 12:00 PM	Dr Sean Manning, GXLab	Rapid mid-infrared detection of basalt rock dust in soil for enhanced weathering MRV
12:00 PM – 12:20 PM	Meila Picard, Lincoln University	Baseline silicate weathering rates and CO ₂ drawdown following basalt application in a New Zealand sheep farm
12:20 PM – 1:10 PM	Lunch break	Light lunch and refreshments available in the A3 foyer. Poster viewing session.
1:10 PM – 1:30 PM	Dr Aydin Enez, Deakin University	Rocking the crop: A national-scale investigation of glacial rock flour efficacy in Australian cropping systems
1:30 PM – 1:50 PM	Sofonyas Tefera, James Cook University	Effect of soil management on carbon dioxide removal via enhanced rock weathering under sugarcane in the tropics
1:50 PM – 2:10 PM	Fredrick Holden, James Cook University	Mechanisms limiting carbon dioxide removal via enhanced weathering of basalt in the field
2:10 PM – 2:30 PM	Thilini Amarasinghe, Adelaide University	Effects of basalt and nitrogen application rates on soil properties, wheat performance, and carbon capture in a greenhouse study
2:30 PM – 2:50 PM	Afternoon Tea break	Tea, coffee and afternoon tea available in the A3 foyer. Poster viewing session.
2:50 PM – 3:10 PM	Dr Thomas Jones, CSIRO	Enhanced rock weathering in unfavourable agricultural landscapes
3:10 PM – 3:30 PM	Lakshmi Chamaparambil Suresh, Adelaide University	Determining acid neutralisation capacity of crushed basalt
3:30 PM – 3:50 PM	Hannah Green, James Cook University	Carbon dioxide removal via enhanced rock weathering: Understanding mechanisms and the effect of soil properties
3:50 PM – 4:40 PM	Panel Discussion	Open discussions on enhanced rock weathering in Australia and New Zealand
4:40 PM – 5:20 PM	ERW field trial site visit and demonstration	Walk to the ERW sugarcane trial site located on the JCU campus

Please note: Program times shown are Australian Eastern Standard Time (AEST). The program is preliminary and subject to change.



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Poster Presentations

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Foyer, Building A3, JCU Nguma-bada campus, Smithfield, QLD

TIME	PRESENTER	TOPIC
All Day	Dr Peter Almond, Lincoln University	Effects of basalt weathering on agronomically relevant soil and herbage properties in a New Zealand sheep farm
All Day	Dr Biraj Basak, ICAR-Indian Agricultural Research Institute	Application of silicate mineral powders for agricultural and environmental sustainability: a tropical perspective
All Day	Professor Paul Nelson, James Cook University	Enhanced rock weathering for carbon dioxide removal in a grazed tropical savanna
All Day	Professor Paul Nelson, James Cook University	Enhanced rock weathering: field trials with basalt on farms across Eastern Australia
All Day	Dr Lily Reid, Adelaide University	Effects of crushed basalt application on the organic carbon content of an orchard soil



Basalt spreading in sugarcane (Credit Paul Nelson, AI generated drawing)

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