

Australia New Zealand Biochar Conference 2021 Programme



5 Oct - 17 Nov 2021

Delivered Virtually
Over Seven Weeks

Biochar in the Carbon Drawdown Decade 2030 and Beyond

-  **Food, Fibre and Recreation**
-  **Energy**
-  **Infrastructure**
-  **Drawdown Markets**
-  **Biosphere Standards**



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ANZBC21 is a climate positive event





Biochar in the Carbon Drawdown Decade 2030 and Beyond

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Plenary Day 1 - Tuesday October 5

Time & Date: Tuesday October 5	Presentation	Speaker	Background
8:30 - 9:00	Event Kick Off Virtual Breakfast	Josh Wilson and Nigel Murphy	Assistant Shadow Minister for the Environment and Chair ANZ Biochar Industry Group (ANZBIG)
9:00 - 9:30	An overview of the World Biochar Industry; Onwards and Upwards	Professor Stephen Joseph	Visiting Professor at five Universities
9:30 - 10:00am	BioChar in Construction: How to build Carbon Negative Pavements	Andre Van Zyl	New World Pavement Solutions
10:00 - 10:30am	Morning Tea & Virtual Networking		
10.30 - 11.00am	Is Biochar Overcoming Inertia and Now Ready to Thrive	Nigel Murphy	Earth Systems - Charmaker
11.00 - 11.30	Hundred million tonne a year International Carbon Removal Markets - the opportunities for Australia and New Zealand	Ian Stanley & Peter Burgess	Rainbow Bee Eater
11.30 - 12.00	Carbon Capture, Cascades & Credits: Pathways to Net Zero for Biochar	Craig Bagnall	SEATA Group
12:00 - 12:30pm	Panel Discussion	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)
12:30 - 12:40pm	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)



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Plenary Day 2 - Wednesday October 6

Time & Location	Presentation	Speaker	Background
Wednesday October 6			
8:50 - 9:00	Introduction and Housekeeping	Don Coyne	ANZ Biochar Industry Group (ANZBIG)
9:00 - 9:30	A worldwide update according to the IBI	Kathleen Draper	Chair of International Biochar Initiative
9:30 - 10:00	The Emerging Biochar Industry in North America	Tom Miles	CEO at US Biochar Initiative
10:00 - 10:30am	Morning tea & Virtual Networking		
10:30 - 11 Noon	How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar	Stephen Joseph	Visiting Professor at five Universities
11:00 - 11:30	Opportunities to improve fertiliser use efficiency with biochar: key mechanisms	Lukas Van Zwieten	NSW DPI
11:30 - 12Noon	Emerging carbon markets: opportunities for biochar	Annette Cowie	NSW DPI & UNE
12:00 - 12:30	The European Perspective: Biochar, Materials and Climate Change Mitigation	Harald Bier	European Biochar Industry Consortium
12:30 - 1:00	Panel Discussion	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)
1:00 - 1:10	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)

Food, Fibre and Recreation Sessions

Wednesday October 13 | 1 - 4:30pm AEST



- broad-acre agriculture productivity
- horticulture
- parklands/public gardens
- sports fields/golf courses

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Time & Date:	Presentation	Speaker	Background
Wednesday October 13			
12:30 - 12:45	Networking and Expo Open		
12:45 - 1:00	Opening address	Hon. Darren West MLC, Member for Agricultural Region	Western Australian Legislative Council
1:00 - 1:30	Biochar in broadacre agriculture, animal feeds and soils	Stuart Larsson	Mara Seeds and Soft Agriculture Pty Ltd
1:30 - 2:00pm	Creating soil carbon sinks in Agriculture	David Yarrow	Terra Char
2:00 - 2:10	Networking	Using the Networking button in Hopin, meet other attendees online	
2:10 - 2:40pm	The benefits of ANZBIG's code of practice for quality assurance in food production	Karen Enkalaar	Agspand P/L
2:40 - 3:10pm	Characterization of a commercial maize straw biochar NPK	Sara Tahery	UNSW
3:10 - 3:40pm	The multiplying effect of biochar on soil carbon and plant productivity	Melissa Rebbeck	Climate & Agricultural Support P/L
3:40 - 3:50	Networking	Using the Networking button in Hopin, meet other attendees online	
3:50 - 4:20	How developments from an experiment testing biological carbon sequestration on multiple local adaptations in Western Australia have been disseminated internationally and implemented with local adaptation	Kathy Dawson	Biochar Network of Western Australia
4:20 - 4:25	Networking	Using the Networking button in Hopin, meet other attendees online	
4:25 - 4:40pm	Panel Discussion	Don Coyne & today's presenters	ANZ Biochar Industry Group (ANZBIG)
4:40 - 4:45pm	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group

Infrastructure - Materials Transformation Sessions

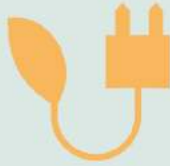


Wednesday October 20 | 1 - 4:30pm AEST

- concrete
- asphalt
- the built environment

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Time & Date	Presentation	Speaker	Background
Wednesday October 20			
12:30 – 12:45	Networking and Expo Open		
12:45 – 1:00	Opening Address	Greens Senator Dorinda Cox - W.A. Parliament	Western Australian Greens party
1:00 – 1:30	Geopolymers and Dispersion of Biochar	John Saad	CHT
1:30 - 2:00pm	Opportunities for Graphene in Bioenergy	Jennifer Lauber Patterson & Mal Campbell	Frontier Impact Group
2:00 - 2:30pm	Encapsulated biochar used as bitumen replacement and/or additive	Alexandru Let	Technical Manager, State Asphalt NSW
2:30 – 2:35	Networking and Expo Open		
2:35 - 3:05pm	Biochar in a changing world: future prospective	Mauro Giorcelli	Politecnico di Torino
3:05 - 3:35pm	Negative-emission Bio-based Circular Economy	Dr Chun-Zhu Li	Renergi Pty Ltd
3:35 - 4:05pm	Biochar concrete for marine constructions	Kua Harn Wei	National University of Singapore
4:00 – 4:05	Networking and Expo Open		
4:05 – 4:20	Panel Discussion	Don Coyne and today's presenters	
4:20 - 4:25pm	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)



Energy Sessions

Wednesday October 27 | 1 - 4:30pm AEST

- heat,
- syngas
- horticultural CO₂
- green hydrogen & bio-oil

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Time & Date:	Presentation	Speaker	Background
Wednesday October 27			
Energy			
12:45 - 1:00	Networking and Expo Open		
1:00 - 1:05pm	Introduction and Housekeeping	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)
1:05 - 1:35	Forestry and Sawmilling Residues Utilisation and Stewardship Strategies	Russ Martin	MS2
1:35 - 2:05	ECHO2 opportunities for Australian and New Zealand regions	Peter Burgess	Rainbow Bee Eater
2:05 - 2:35	Energy Farmers Australia - Updates and Developments	Euan Beamont and Tom Vogan	Energy Farmers Australia
2:35 - 2:45pm	Networking and Expo		
2:45 - 3:15pm	We embrace systematic and innovative approaches	Terri Sun	Carbon Powered Mineral Technology and Products
3:15 - 3:45pm	Mass Energy and Carbon balances for Pyrocal CCT Implementations	James Joyce	Pyrocal CCT
3:45 - 3:55pm	Networking and Expo		
3:55 - 4:25pm	Implementations Key considerations in the design of a Biochar Production Facility	Shaista Shah	Pyrocal CCT
4:25 - 4:40pm	Panel Discussion	Don Coyne & presenters	ANZ Biochar Industry Group (ANZBIG)
4:40 - 4:45pm	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)



Drawdown Markets Sessions

Wednesday November 3 | 1 - 4:30pm AEST

- CO2 Removal Certificates (CORCS)
- industry de-carbonisation
- carbon markets – government and voluntary

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Time & Date: Wednesday November 3	Presentation	Speaker	Background
12:45 - 1:00pm	Networking & Expo Open		
1:00pm - 1:05pm	Intro & Housekeeping	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)
1:05 - 1:35pm	Voluntary carbon drawdown - Australian style: Regional factors to consider for a pyrolysis facility to produce biochar	Timothy Charlton	Aqua Firma Solutions
1:35 - 2:05pm	Biochar, drawdown and CBAMS -Navigating a pathway to competitive international trade in a time of climate action	Dr Simon Dawkins	Oil Mallee Association of Western Australia (OMA)
2:05 - 2:35pm	Biochar and emerging market potentials in Australia	Louisa Kiely	Carbon Farmers of Australia
2:35 - 2:45pm	Networking & Expo Open		
2:45 - 3:15pm	Looking for biochar projects to create carbon credits	Ruy Anaya de La Rosa	Corporate Carbon
3:15 - 3:45pm	Biochar in soils methodology Verra. Methodology for biochar utilization in soil and non-soil applications	Thomas Schroeder	South Pole Australia
3:45 - 3:55pm	Networking & Expo Open		
3:55 - 4:25	How to secure revenue from carbon removal before the facility is ready?	Antti Vihavainen	CEO Puro. Earth
4:25 - 4:40pm	Panel Discussion	Don Coyne & Presenters	ANZ Biochar Industry Group (ANZBIG)
4:40 - 4:45pm	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)



Exploring Biosphere Standards Sessions

Wednesday November 10 | 1 - 4:30pm AEST

- regulatory
- test methodologies
- sustainability: improving quality in soil, air and water

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Time & Date: Wednesday November 10	Presentation	Speaker	Background
12:45 – 1:00	Networking and Expo Open		
1:00 – 1:05	Intro & Housekeeping	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)
1:05 – 1:35	The Potential Role of Biochar to Reduce Net GHG Emissions from New Zealand Agriculture	Jim Jones	Massey University
1:35 – 2:05	Thermal treatment of biosolids (A Utility Perspective)	Damien Batstone	Univ. of Qld
2:05 - 2:35pm	Biochar Analysis Explained	Graham Lancaster	Environmental Analysis Laboratories
2:35 – 2:45pm	Networking and Expo Open		
2:45 – 3:15pm	Application of biochar for sodium removal	Mohammad Nusheh	Hot Lime Labs (NZ)
3:15 – 3:45pm	Biosolids to Biochar Journey	Aravind Surapaneni	South East Water
3:45-3:55pm	Networking and Expo Open		
3:55-4:25pm	The importance of audit and verification for Carbon Drawdown	Philip Link	Energy Link Services
4:25 – 4:40pm TBA	Panel Discussion	Don Coyne & presenters	
4:40 – 4:45pm	Close	Don Coyne & Sam Zagami	ANZ Biochar Industry Group (ANZBIG)



Open Forums - Code of Practice & Next Steps

Wednesday November 17 | 1 - 3:30pm AEST

- Panel Discussion
- Q&A on ANZBIG's code of practice
- Q&A on next steps for ANZ biochar industry

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Time & Date: Open Forum		
Wednesday November 17	Panel Discussion	Panel
12:45 - 1:00pm	Networking	
1:00 - 1:30pm	Launch of the live version of ANZBIG's Code of Practice	Nigel Murphy, ANZBIG Chair Craig Bagnall, SEATA Group
1:30 - 1:40pm	Networking	
1:40 - 1:55pm	Code of Practice Q&A	Don Coyne, CEO ANZBIG Nigel Murphy, ANZBIG Chair Craig Bagnall, SEATA Group
1:55 - 2:05pm	Code of Practice Group Panel Discussion	Nigel Murphy, ANZBIG Chair Craig Bagnall, SEATA Group Don Coyne, ANZBIG Karen Enkellar, Agspan Graham Lancaster, EAL Stephen Joseph, UNSW
2:05 - 2:15pm	Networking	
2:15 - 2:35pm	Strategic next steps for ANZ Biochar Industry	Don Coyne, CEO ANZBIG
2:35 - 2:45pm	Networking	
2:45 - 3:00pm	Questions from the audience	Don Coyne, ANZBIG Nigel Murphy, ANZBIG
3:00 - 3:15pm	ANZBIG Exec Board Panel Discussion	Don Coyne Nigel Murphy Peter Burgess Hilary Furlough Melissa Rebbeck Dennis Enright Stephen Joseph
3:15 - 3:30pm	Close	Don Coyne, ANZBIG