

# International Bioreactor Forum

10 March 2020

Rydges Esplanade, Cairns

8:00 am – 4:30 pm

209-217 Abbott Street, Cairns, Qld 4870



Agenda		
Time	Details	Presenter(s)
8:00	Tea and coffee	
8:15	Welcome, Acknowledgement of Traditional Owners and housekeeping	Forum Hosts Rhianna Robinson, Department of Agriculture and Fisheries Carla Wegscheidl, Department of Agriculture and Fisheries
8:25	Setting the scene: bioreactors role in sustainable food production.	Ian Layden, Director Vegetables, Systems and Supply Chains, Department of Agriculture and Fisheries
Session 1: How have bioreactors been used in nutrient mitigation overseas?		
8:40	Use of bioreactors to improve water quality in the USA	Laura and Reid Christianson, University of Illinois
9:40	Overview of bioreactors in New Zealand	Louis Schipper, University of Waikato
10:00	Strategies to enhance the performance of denitrifying bioreactors	Dori Torres-rojas, University of Waikato
10:10	Morning tea	
Session 2: What have we learnt from bioreactor trials in Queensland and NSW?		
10:50	Bioreactor trials on cane farms in the Russell-Mulgrave River catchments	Liz Owen and Dennis Ah-kee, Jaragun NRM; cane farmers; Alex Cheesman, JCU
11:20	Bioreactor trials on an aquaculture farm	Alex Cheesman, JCU
11:30	Exploring bioreactor designs to fit within the wet tropics landscape	Suzette Argent, Terrain NRM; Mark Bayley, Australian Wetlands Consulting; cane farmers
12:00	Bioreactor trials on cane farms in the lower Burdekin and pineapple farm in Pumicestone catchment	Rhianna Robinson, DAF; Fabio Manca, QUT; cane farmers
12:30	Large scale bioreactor on a cane farm	Greening Australia
12:45	Bioreactor trials on farms in New South Wales	Shaun Morris, NSW
13:00	Lunch	
Session 3: What is the future for bioreactors?		
13:45	Breaking down the issues and challenges (group activity) <ul style="list-style-type: none"><li>What is the potential role for bioreactors in food production systems?</li><li>What are the barriers and opportunities to on-ground adoption of bioreactors to improve water quality?</li><li>What are the priority issues to address?</li></ul>	
14:30	Catalysing action (group activity) Examples from USA and Australia on a systematic approach to overcoming barriers to adoption <ul style="list-style-type: none"><li>How can challenges be overcome?</li><li>What actions are needed?</li><li>Develop short action plan to address a priority issue.</li></ul>	
15:15	Afternoon tea	
15:45	Synthesis of barriers and actions from session 3	
16:10	Planned resources and support for future bioreactor work	Carla Wegscheidl, Department of Agriculture and Fisheries; Matthew Griffiths, Department of Environment and Science
16:25	Forum Close	



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