



# ICSR

20th INTERNATIONAL CONFERENCE ON  
SHELLFISH RESTORATION  
27th - 30th APRIL 2021  
NELSON BAY NSW AUSTRALIA

*Photo by David Harasti*

## TUESDAY 27 APRIL 2021

0730	Registration opens	
0900	Welcome to Country <i>Neville Lilley, Worimi Elder</i>	
0915	Welcome to conference <i>Geoff Allan, DDG of Department of Primary Industries</i>	
0930	<b>PLENARY SESSION 1</b> <span style="float: right;"><i>Chairperson: Kylie Russell, NSW Department of Primary Industries, NSW</i></span>	
0930	Large-Scale Oyster Restoration in Chesapeake Bay, USA <i>Stephanie Reynolds Westby, National Oceanic and Atmospheric Administration, USA</i> – virtual	
1000	New Reefs for New York – Urban Oyster Restoration as a Catalyst for Change in New York City <i>Pete Malinowski, Billion Oyster Project, USA</i> – virtual	
1030	<b>MORNING TEA</b>	
1100	<b>THEME SESSION 1</b> <span style="float: right;"><i>Chairperson: Chris Gillies, The Nature Conservancy, VIC</i></span>	
1100	Testing existing molecular markers associated with bonamia-infection <i>Zoë Holbrook, University of Southampton, UK</i> – virtual	
1115	Can BRUVS be used to monitor the success of shellfish reef restoration projects? <i>Simon Bryars, Department for Environment and Water, SA</i> – virtual	
1130	Shellfish reef restoration projects: Legal Impacts & Issues <i>Katherine Hawes, Aquarius Lawyers, NSW</i>	
1145	Stakeholder-supported restoration suitability modelling for oyster reefs <i>Alice Howie, Macquarie University, NSW</i>	
1200	Mussel reef restoration in Australia's bays and estuaries <i>Fiona Valesini, The Nature Conservancy, WA</i> – virtual	
1215	<b>Poster 'marketing talks' &amp; Speed Talks</b>	
1215	<b>Marketing talk</b> - Habitat provision by reefs of the leaf oyster <i>Isognomon ehippium</i> in subtropical estuaries <i>Victoria Cole, NSW Department of Primary Industries, NSW</i>	
1217	<b>Marketing talk</b> - De Novo Reefs: Fish Habitat Provision by Oyster Farms <i>Francisco Martínez-Baena, Macquarie University, NSW</i>	
1219	<b>Marketing talk</b> - The lost oysters of Pumicestone Passage <i>Karen Wingett, Southern Cross University, Qld</i> – virtual	
1221	<b>Marketing talk</b> – Genetic structure and effective population size of Sydney rock oysters in eastern Australia <i>Jessica O'Hare, Macquarie University, NSW</i>	
1223	<b>Speed talk</b> – Understanding substrate requirements of native species to produce effective eco-engineered surfaces <i>Dayanitha Damodaran, Cawthron Institute, New Zealand</i> – virtual	
1228	<b>Speed talk</b> – Picturing how a restored shellfish reef develops <i>Anita Nedosyko, The Nature Conservancy, SA</i>	
1233	<b>LUNCH AND POSTER VIEWING</b>	



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1330	<b>THEME SESSION 2</b>		<i>Chairperson: Jillian Keating, NSW Department of Primary Industries, NSW</i>
1330	Leaf oysters ( <i>Isognomon ehippium</i> ) as a potential candidate for shellfish reef restoration <i>Chamara Benthotege, Southern Cross University, NSW</i>	-virtual	
1345	Ecoengineering seawalls to enhance oyster recruitment <i>Melanie Bishop, Macquarie University, NSW</i>		
1400	Enhancing marine soundscapes to boost oyster reef restoration <i>Dominic McAfee, University of Adelaide, SA</i>		
1415	Community-driven shellfish reef restoration bringing back lost habitat and enhancing fisheries: project update from Pumicestone Passage, Queensland <i>Susie Chapman, Healthy Land and Water, Qld</i>		
1430	Monitoring natural shellfish recruitment for the Pumicestone Passage Shellfish Habitat Restoration Trial in Moreton Bay, Queensland, Australia <i>Ben Diggles, OzFish Unlimited Pumicestone Passage Chapter, Qld</i>		
1445	Managing translocation risk for aquatic animals in NSW <i>Debra Doolan, NSW Department of Primary Industries, NSW</i>		
1500	<b>AFTERNOON TEA</b>		
1530	<b>THEME SESSION 3</b>		<i>Chairperson: Ian McLeod, James Cook University, Qld</i>
1530	Denitrification in Restored Mussel Beds of the Hauraki Gulf <i>Mallory Sea, The University of Auckland, NZ</i>	- virtual	
1545	A consistent approach to monitoring, evaluation and reporting for shellfish reef restoration. <i>Simon Reeves, The Nature Conservancy, SA</i>	- virtual	
1600	Reef Builder: A bold plan to recover critically endangered shellfish ecosystems <i>Chris Gillies, The Nature Conservancy, NSW</i>		
1615	Shucking the red tape - Getting OzFish's Robust Oyster Baskets (ROBs) into Moreton Bay <i>Robbie Porter, OzFish Unlimited, Qld</i>		
1630	Factors influencing recruitment of Sydney rock oysters: Implications for oyster reef restoration <i>Juan Ramon Esquivel-Muelbert, Macquarie University, NSW</i>		
1645	Building resilience in oysters to climate change <i>Laura Parker, University of New South Wales, NSW</i>		
1700	Day close		
1730 – 2130	Barefoot bowls, BBQ & drinks <i>Nelson Bay Bowling Club, 1 Stockton Street, Nelson Bay</i>		






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## WEDNESDAY 28 APRIL 2021

0800	Registration opens	
0900	<b>THEME SESSION 4</b>	
	<i>Chairperson: Susie Chapman, Healthy Land and Water, Qld</i>	
	0900	Oyster Network – UK & Ireland: Restoring the UK’s Oyster belt <i>Celine Gamble, Zoological Society of London, UK – virtual</i>
	0915	Building Oyster Reefs for Shoreline Protection - Different Substrates for Different Shorelines <i>Bo Lusk, The Nature Conservancy, USA – virtual</i>
	0930	Reef scale and configuration for the restoration of ecosystem functions <i>Ana Bugnot, University of Sydney, NSW</i>
	0945	Oyster reef restoration in Australia’s bays and estuaries <i>Simon Branigan, The Nature Conservancy, VIC</i>
	1000	Threading the Needle - ORR Permitting and Approvals in NSW <i>Kirk Dahle, NSW Department of Primary Industries, NSW</i>
	1015	The Reef Restoration and Adaptation Program - opportunities to share knowledge between coral and shellfish restoration research <i>Ian McLeod, James Cook University, Qld</i>
1030	<b>MORNING TEA</b>	
1100	<b>THEME SESSION 5</b>	
	<i>Chairperson: Fiona Valesini, The Nature Conservancy, WA</i>	
	1100	An overview of mussel restoration efforts in the Hauraki Gulf of New Zealand - science, society and management <i>Jenny Hillman, University of Auckland &amp; Rebecca Barclay, Auckland Council, NZ – virtual</i>
	1130	Developing a standardised monitoring plan for mussel reef restoration: a New Zealand case study <i>Sophie Roberts, University of Auckland, New Zealand – virtual</i>
	1145	Multi-habitat reef restoration: Benefits from merging shellfish-reef and boulder-reef restorations <i>Kiran Liversage, University of Tartu, Europe – virtual</i>
	1200	Unexpected diversity of oyster species in Queensland – implications for shellfish reef restoration design <i>Carmel Mcdougall, Australian Rivers Institute, Griffith University, Qld</i>
1215	Understanding spatial-reef attributes on oyster population characteristics and their associated biodiversity on remnant Sydney rock oyster reefs <i>Rick Leong, University of New South Wales, NSW</i>	
1230	<b>LUNCH</b>	
1330	<b>Field Trip:</b> Port Stephens Oyster Reef Restoration Site Boat Tour	
1730	Day close	
1800 – 1900	Happy Hour drinks & nibbles <i>Nelson Bay Golf Club, 57 Dowling Street, Nelson Bay</i>	With thanks to 



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## THURSDAY 29 APRIL 2021

0800	Registration opens	
0900	<b>THEME SESSION 6</b> <span style="float: right;"><i>Chairperson: Anita Nedosyko, The Nature Conservancy, SA</i></span>	
	0900	How slipper limpets, <i>Crepidula fornicata</i> , alter the hydrodynamic environment at the seabed, and the implications for oyster, <i>Ostrea edulis</i> , restoration <i>Zoë Holbrook, University of Southampton, UK – virtual</i>
	0915	Biosecurity risks related to recycling of mollusc shell waste for shellfish reef restoration in Australia <i>Ben Diggles, DigsFish Services, Qld</i>
	0930	Toxicity of a neonicotinoid pesticide, imidacloprid, to Sydney rock oysters <i>Endurance Ewere, Southern Cross University, NSW – virtual</i>
	0945	Oyster biosecurity in NSW and considerations for oyster reef restoration projects <i>Ben Rampano, NSW Department of Primary Industries, NSW</i>
1000	<b>MORNING TEA</b>	
1030	<b>THEME SESSION 7</b> <span style="float: right;"><i>Chairperson: Victoria Cole, NSW Department of Primary Industries, NSW</i></span>	
	1030	Restoration of New Zealand blackfoot abalone ( <i>Haliotis iris</i> ) in response to mass mortality and habitat loss following a cataclysmic earthquake and coastal uplift <i>Shawn Gerrity, Marine Ecology Research Group – University of Canterbury, NZ – virtual</i>
	1045	Port River Shellfish Restoration Project: Five Years of Community Action <i>Catherine McMahon, Estuary Care Foundation, SA – virtual</i>
	1100	Oyster reef restoration partnerships and prioritisation on the Mid North Coast of New South Wales, Australia <i>Brian Hughes, Hunter Local Land Services, NSW</i>
	1115	Technology and tea – a modern, meets timeless means of stakeholder engagement <i>Charlotte Jenkins, NSW Department of Primary Industries, NSW</i>
1130	OceanWatch's Living Shorelines- The next phase. <i>Simon Rowe, Oceanwatch Australia (Marine NRM), NSW</i>	
1145	<b>LUNCH</b>	
1230	<b>Field Trip:</b> Port Stephens Fisheries Institute and Hunter River Reefs Field Trip	
1630	Day close	
1800 – 2300	Conference Dinner <i>Broughtons at the Bay, Level 1, d'Albora Marinas, 6 Teramby Road, Nelson Bay</i>	





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## FRIDAY 30 APRIL 2021

0900	Registration opens	
0930	<b>THEME SESSION 8</b> <span style="float: right;"><i>Chairperson: Ana Bugnot, NSW Department of Primary Industries, NSW</i></span>	
0930	Sexy shellfish in the city: incorporating Māori knowledge and co-design into an urban shellfish restoration project <i>Marcus Cameron, Tonkin+Taylor, NZ – virtual</i>	
0945	Juvenile Delinquents: Lessons learned from using juvenile mussels to build a more efficient path for reef restoration <i>Alex Alder, The University of Auckland, NZ – virtual</i>	
1000	Remnant oyster reefs as fish habitat in New South Wales, Australia: A Seascape Perspective <i>Francisco Martínez-Baena, Macquarie University, NSW</i>	
1015	Oyster Reef Restoration in Port Stephens <i>Victoria Cole, NSW Department of Primary Industries, NSW</i>	
1030	What is really left? Mapping remnant oyster reefs in NSW estuaries <i>Jillian Keating, NSW Department of Primary Industries, NSW</i>	
1045	Response of the microbiome of Sydney rock oysters varies across families when exposed to warming and acidification <i>Elliot Scanes, The University of Sydney, NSW</i>	
1100	<b>MORNING TEA</b>	
1145	<b>THEME SESSION 9</b> <span style="float: right;"><i>Chairperson: Charlotte Jenkins, NSW Department of Primary Industries, NSW</i></span>	
1145	Conserving shellfish reefs – A systematic review reveals the need to broaden research efforts <i>Trevyn Toone, University of Auckland, New Zealand – virtual</i>	
1200	First Restoration Effort of Green-lipped Mussels to the Marlborough Sounds of New Zealand <i>Emilee Benjamin, The University of Auckland, NZ – virtual</i>	
1215	Use of environmental DNA to detect changes in fish communities associated with oyster reef restoration <i>Michael Stat, University of Newcastle, NSW</i>	
1230	Traditional and Historical use of oyster reef resources by Worimi People <i>Regan Lilley, NSW Department of Primary Industries – Marine Parks, NSW</i>	
1245	<b>LUNCH AND POSTER VIEWING</b>	
1345	<b>PLENARY SESSION 2</b> <span style="float: right;"><i>Chairperson: Kirk Dahle, NSW Department of Primary Industries, NSW</i></span>	
1345	Aquaculture and oyster reef restoration <i>Michael Dove, NSW Department of Primary Industries, NSW</i>	
1415	The burgeoning oyster revolution in Europe <i>Alison Debney, Zoological Society of London, UK – virtual</i>	
1445 - 1500	Conference Close – The Next Steps for NSW <i>Kylie Russell, NSW Department of Primary Industries, NSW</i>	