



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 | PLENARY SESSION 1 <i>Chairperson: Kylie Russell, NSW Department of Primary Industries, NSW</i> | |
| 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 | MORNING TEA | |
| 1100 | THEME SESSION 1 <i>Chairperson: Chris Gillies, The Nature Conservancy, VIC</i> | |
| 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 | Technology and tea – a modern, meets timeless means of stakeholder engagement <i>Charlotte Jenkins, NSW Department of Primary Industries, NSW</i> | |
| 1215 | Poster 'marketing talks' & Speed Talks | |
| 1215 | Marketing talk - 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 | Marketing talk - De Novo Reefs: Fish Habitat Provision by Oyster Farms <i>Francisco Martínez-Baena, Macquarie University, NSW</i> | |
| 1219 | Marketing talk - The lost oysters of Pumicestone Passage <i>Karen Wingett, Southern Cross University, Qld</i> – virtual | |
| 1221 | Marketing talk – Genetic structure and effective population size of Sydney rock oysters in eastern Australia <i>Jessica O'Hare, Macquarie University, NSW</i> | |
| 1223 | Speed talk – Understanding substrate requirements of native species to produce effective eco-engineered surfaces <i>Dayanitha Damodaran, Cawthron Institute, New Zealand</i> – virtual | |
| 1228 | Speed talk – Picturing how a restored shellfish reef develops <i>Anita Nedosyko, The Nature Conservancy, SA</i> | |
| 1233 | LUNCH AND POSTER VIEWING | |



ICSR

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

Photo by David Harasti

| | | | |
|-------------|---|-----------|--|
| 1330 | THEME SESSION 2 | | <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 | AFTERNOON TEA | | |
| 1530 | THEME SESSION 3 | | <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> | | |




ICSR

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

Photo by David Harasti

WEDNESDAY 28 APRIL 2021

| | | |
|-------------|---|--|
| 0800 | Registration opens | |
| 0900 | THEME SESSION 4 | |
| | <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 | MORNING TEA | |
| 1100 | THEME SESSION 5 | |
| | <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 & 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 | LUNCH | |
| 1330 | Field Trip: Port Stephens Oyster Reef Restoration Site Boat Tour | |
| 1700 | Day close | |
| 1715 – 1830 | Happy Hour drinks & nibbles <i>Nelson Bay Golf Club, 57 Dowling Street, Nelson Bay</i> | With thanks to  |



ICSR

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

Photo by David Harasti

THURSDAY 29 APRIL 2021

| | | |
|----------------|--|--|
| 0800 | Registration opens | |
| 0900 | THEME SESSION 6 <i>Chairperson: Anita Nedosyko, The Nature Conservancy, SA</i> | |
| | 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 | MORNING TEA | |
| 1030 | THEME SESSION 7 <i>Chairperson: Victoria Cole, NSW Department of Primary Industries, NSW</i> | |
| | 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 | Mussel reef restoration in Australia's bays and estuaries <i>Fiona Valesini, The Nature Conservancy, WA</i> |
| | 1130 | OceanWatch's Living Shorelines- The next phase. <i>Simon Rowe, Oceanwatch Australia (Marine NRM), NSW</i> |
| 1145 | LUNCH | |
| 1230 | Field Trip: 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> | |



ICSR

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

Photo by David Harasti

FRIDAY 30 APRIL 2021

| | | |
|-------------|--|--|
| 0900 | Registration opens | |
| 0930 | THEME SESSION 8 <i>Chairperson: Ana Bugnot, NSW Department of Primary Industries, NSW</i> | |
| 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 | MORNING TEA | |
| 1145 | THEME SESSION 9 <i>Chairperson: Charlotte Jenkins, NSW Department of Primary Industries, NSW</i> | |
| 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 | LUNCH AND POSTER VIEWING | |
| 1345 | PLENARY SESSION 2 <i>Chairperson: Kirk Dahle, NSW Department of Primary Industries, NSW</i> | |
| 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> | |