Final Schedule: 13th annual NZOAC Conference
17 - 18 February 2020, Victoria University of Wellington

Monday, February 17, 2020		
8:00 - 8:45	Registration opens	
8:45 - 9:00	Welcome and introductions (Christopher Cornwall)	
9:00 - 10:15	**Session 1: Carbonate chemistry: past and present** Chair: Jenn Jury	
9:00 - 9:25	Helen Bostock	The spatial and seasonal variability of ocean acidification in the Firth of Thames/Hauraki Gulf - CARIM
9:25 - 9:50	Helen Macdonald	Physical - biogeochemical modelling of the Hauraki Gulf: introducing the carbon chemistry components
9:50 - 10:15	Oliver Knebel	Ocean acidification in the industrial era: Boron isotope-pH proxy records from Pacific microatolls
10:15 - 10:45	**Morning tea**	
10:45 - 12:05	**Session 2: Ocean Acidification in New Zealand** Chair: Monique Ladds	
10:45 - 11:10	Constance Nutsford and Rebecca Martel	Environmental Reporting and the Ocean Acidification Action Plan
11:10 - 11:35	Cliff Law	Informing national policy and action on ocean acidification
11:35 - 12:00	Lily Hurley	Sea-weeding Out Methane: A cost-benefit analysis of how introducing seaweed to New Zealand's dairy cattle diets could mitigate ocean acidification
12:00 - 12:10	Panel discussion	
12:10 - 1:15	**Lunch**	
1:15 - 2:40	**Session 3: Monitoring Ocean Acidification in New Zealand** Chair: Monique Ladds	
1:15 - 1:40	Kim Currie	Working with stakeholders and local communities to monitor ocean acidification in New Zealand coastal waters
1:40 - 2:05	Jesse Vance	NZOA-ON: The New Zealand Ocean Acidification Observing Network
2:05 - 2:30	John Zeldis	Hypoxia, acidification and gross primary production in the Firth of Thames: insights from long-term mooring data
2:30 - 3:40	Panel discussion	
2:40 - 3:10	**Afternoon tea**	

Monday, February 17, 2020 ***con't***		
3:10 - 5:00	**Session 4: Appreciating complexity: multiple drivers, time scales and life stages** Chair: Christina McGraw	
3:10 - 4:00	**Jon Havenhand**	***Plenary*** **The Gordian Knot of Marine Climate Science: Multiple Drivers on Multiple Timescales**
4:00 - 4:25	Norman Ragg	Integrated life cycle effects of ocean acidification on the Greenshell mussel, Perna canaliculus
4:25 - 4:50	Christopher Cornwall	Reef-building taxa gain tolerance to ocean acidification after multiple generations of exposure
4:50 - 5:00	Poster summaries	
5:00 - 6:30	**Poster session**	
	Maria Byrne	Coastal acidification impacts on shell structure of bivalve molluscs.
	Wayne Dillon	Variability of [Ca^{2+}] in coastal waters: required parameter for coastal OA monitoring?
	Grace Frontin-Rollet	Using pH-controlled sediment leaching experiments to assess the biotoxic impacts of ocean acidification: a proof of concept
	Seyedehhabibeh Hashemi	Autonomous field deployable device for quantification of dimethylsulfide in seawater
	Hanneloor Heynderickx	Does pH variability in NZ kelp forests impact biofilm composition?
	Erik Krieger	Tolerance of marine calcifiers to the changes of the ocean's carbonate system
	Francisco Márquez-Borrás	Is the endemic brittle star Ophionereis fasciata being affected by a changing ocean?
	Maserota Ofoia	Inexpensive and deployable device for understanding natural variability and detecting extreme pH events
	Alexia Saint Macary	Will ocean acidification and warming affect DMS emissions from coastal waters?
	Aleluia Taise	Macroalgal responses to climate change stressors: effects of ocean acidification on *Caulerpa* species
	Jesse Vance	Modeling Inorganic Carbon Dynamics on the Otago Shelf
	Nadjedja Espinel Velasco	To settle or not to settle: Seawater pH alters marine biofilms and influences larval settlement success in the serpulid polychaete
7:30	**Conference Dinner**	

	Tuesday, February 18, 2020	
8:30 - 9:00	Registration opens	
9:00 - 9:10	Welcome (Chris Cornwall)	
9:10 - 10:30	**Session 5: Sediments and minerology** Chair: Jess Ericson	
9:10 - 9:35	Abby Smith	Blue Shell Science: composition and resilience of pāua shell (Haliotis iris Gmelin,1791)
9:35 - 10:00	Alexis Marshall	Acidification Response of Marine Sediments (ARMS)
10:00 - 10:25	Shelly Brandt	Microbial Communities in Benthic Coastal Sediments Respond to Ocean Acidification Under Sustained pH Regimes
10:25 - 10:30	Metrohm	Demonstration
10:30 - 11:00	**Metrohm morning tea**	
11:00 - 12:15	**Session 6: New methods** Chair: Wayne Dillon	
11:00 - 11:25	Christina McGraw	Aligning multiple driver research through MEDDLE (Multiple Environmental Driver Design Lab for Experiments)
11:25 - 11:50	Peter Dillingham	Split-plot global ocean change experiments, model-averaging, and effective sample size
11:50 - 12:15	Denise Chen	Optical fibre pH sensor for studying the impact of ocean acidification to the marine environment
12:15 - 1:30	**Lunch**	
1:30 - 3:10	**Session 7: Organism and community responses** Chair: Jesse Vance	
1:30 - 1:55	Caitlin Blain	Heterogeneity around CO2 vents blurs the effects of ocean acidification on shallow reef communities
1:55 - 2:20	Jenn Jury	Do genetic source and maternal provisioning play a role in resilience to future OA in early-stage NZ Green-Lipped mussel, Perna canaliculus?
2:20 - 2:45	Hannah Heynderickx	In situ effect of Ocean Acidification on prokaryotic biofilms at volcanic CO2 sites
2:45 - 3:10	Jess Ericson	Effects of shell enrichment on seawater carbonate buffering and development of larval Perna canaliculus exposed to near-future ocean acidification
3:10 - 3:35	**Afternoon tea**	
3:35 - 3:55	Session 7: Annual NZOAC update	

3:55 - 4:00	**Conference close**