

2023 Quaternary Techniques Shortcourse - draft timetable. Version: 25 July 2023

Wednesday 9 August					
session	location	host/chair	speaker	title	
11:00	welcome				
11:15	fossils	Joe Prebble	Valerie Van den Bos	Marine and terrestrial quantitative proxies	
11:30			Martin Tetard	automated capture and classification	
11:45					
12:00					
12:15	<b>LUNCH + group photo</b>				
12:30					
12:45					
13:00	fossils	Joe Prebble	Sebastian Naeher	Tracing environmental and climate change using lipid biomarkers	
13:15			TBA	? marine transfer functions	
13:30					
13:45	field coring demonstration	Marcus	Marcus Vandergoes	Demonstration of coring equipment	
14:00					
14:15					
14:30	<b>Afternoon Tea</b>				
14:45					
15:00	radiocarbon + age modelling		Christian Lewis	Radiocarbon dating fundamentals	
15:15			Tim Hilton	Radiocarbon as an Environmental Tracer	
15:30			TBA	Radiocarbon Calibration	
15:45					
16:00	isotopes		Uwe Morgenstern	Isotope tools for understanding groundwater resources	
16:15					
16:30					
16:45					
17:00	<b>Mixer - drinks and nibbles</b>				
17:15					
17:30					

Thursday 10 August					
session	location	host/chair	speaker	title	
09:00	isotopes		Kevin Faure	Stable Isotope fundamentals	
09:15			Christina Reisselman	Use of isotopes as part of multi-proxy paleoceanography	
09:30			Kevin Norton	Dates and rates from cosmogenic nuclides	
09:45					
10:00					
10:15					
10:30	<b>Morning Tea</b>				
10:45					
11:00	geochem		David Lowe	Tephrochronology	
11:15			Peter Almond	Paleopedology and soil stratigraphy – using the soil to explore the past	
11:30					
11:45	Field Exercise: soil strat		Peter Almond & Kevin Norton	Soil Stratigraphy	
12:00					
12:15					
12:30	<b>LUNCH</b>				
12:45					
13:00	lab tours: ice core & paleontology		Rebecca Pyne	Ice Core Facility	
13:15			Joe & Sonja	Paleo exercise: pollen analysis	
13:30					
13:45	time series		Rob McKay	Frequency analysis and identify climate drivers	
14:00					
14:15					
14:30	<b>Afternoon Tea</b>				
14:45					
15:00	ice records + models		Lauren Vargo	Climate reconstruction from glaciers	
15:15			Holly Winton	Novel ice core proxies for paleoclimate reconstruction	
15:30			Dan Lowry	Ice and climate reconstruction from numerical modelling -	
15:45					
16:00					
16:15					
16:30					
16:45					
17:00					
17:15					
17:30	<b>Dinner - National isotope centre</b>				
17:45					
18:00					
18:15					
18:30					
18:45					
19:00					

Friday 11 August					
session	location	host/chair	speaker	title	
09:00	sediment records		Chris Moy	Sediment core recovery and high-resolution non-destructive analyses	
09:15			Christian Ohneiser	Quaternary Palaeomagnetism and Environmental Magnetism	
09:30			Kyle Bland	Tātaihia te Parataiao o Te Wāhāpū – Hokianga Harbour sedimentation	
09:45					
10:00					
10:15					
10:30	<b>Morning Tea</b>				
10:45					
11:00	fossils		Nic Rawlence	Using ancient DNA to reconstruct late Quaternary palaeoecology -	
11:15	lab tours: radiocarbon prep and measurement		Margaret Norris and Jenny Dahl	How to choose and prepare samples for radiocarbon analysis	
11:30			Andy Phillips	Stable isotope labs	
11:45					
12:00					
12:15					
12:30	<b>LUNCH</b>				
12:45					
13:00	lab tours: organic geochemistry and core analysis		Claire Shepherd & Lizette Reyes	Lake sediment core sampling & scanning	
13:15			Sebastian Naeher	Organic Geochemistry	
13:30					
13:45	sediment records		Marcus Vandergoes	Lakes380	
14:00					
14:15					
14:30	<b>farewell and close</b>				
14:45					
15:00					