

2023 Technical Workshop Program

as at 20/03/2023

Tuesday 28 th March			
Time	Item	Speaker	Organisation
9:30	Registrations		
10:00	Welcome Introduction to Dave Mueller	Pete Evan	
10:15	Introductions, USGS history, QRev development over time and future	Dave Mueller	Genesis Hydrotech
10:30	Morning Tea		
11:00	Photospheres and assessing the obstructed horizon	Joe Gendall	Watercare
11:20	Jet Ski Gauging's: Our Findings	Tane McFadden	Waikato RC
11:40	"Why Thursday???" Challenges for Snow Data collection practice in the Snowy Mountains of South Eastern Australia	Mic Clayton	Snowy Hydro
12:00	Formal Welcome	Iain Maxwell	Hawkes Bay RC
12:30	Lunch		
13:20	Keynote 1: Field Measurements of Flow are the Foundation of Hydrology	Dave Mueller	Genesis Hydrotech
14:00	Water level and quality sensors in the field. A closer look at reliability and practicalities.	Dirk van Walt	Van Walt
14:20	Discrete Data Quality Assurance	Shontelle Milne and Emily Gray	Environment Canterbury
14:40	Rainfall Recording and Ramping of Data – Have we left the 70s behind?	Marianne Watson	Hydronet Lintied
15:00	Afternoon Tea		
15:30	Exhibitor presentations (5 minutes each)		
16:30	Field day details	Pete Davis	Hawkes Bay RC
18:00	Social Event At conference venue		

Wednesday 29 th March – Gauging Regatta		
Time	Item	Venue
09:00 - 14:00	Field Day Hyquest sponsored tour of the area and to a river where demo's will take place by several sponsors	no gauging regatta due to safety concerns
14:00-16:00	Back to venue for discussion on flood field data capture	Further details to be discussed at the workshop.

Wednesday 29 th March – Data Workshop			
Time *	Item	Speaker	Organisation
9:00	Workshop Welcome & Introduction	Angela Perks	BOPRC
9:10	Data Sovereignty Case Study	Jason Donaghy	Northland RC
9:25	Data Ownership/Sovereignty, Citizen Science & Qualitative Data	Group Discussion	
10:30	Morning Tea		
10:45	Data Visualisation Case Study = Power BI & Data Visualisation	Courtney Foster & Jennifer Tregurtha	Environment Canterbury
11:00	Data Visualisation & Reporting	Group Discussion	
11:45	Electronic Field Data Collection	Group Discussion	
12:30	Lunch		
13:30	NEMS Processing of Environmental Time-series Data = Overview and Q&A Session	Marianne Watson	HydroNet Limited
14:20	Data Quality Assurance & Control	Group Discussion	
15:00	Afternoon Tea		
15:10	Open Session	Group Discussion	
15:45	Workshop Review	Angela Perks	BOPRC
16:00	Data Workshop Close		

* = Approximate times only

Thursday 30th March			
Time	Item	Speaker	Organisation
9:00	Keynote 2: QRev Software Part1	Dave Mueller	Genesis Hydrotech
9:40	Floods, Avalanches and Landslides – Some interesting hydrological events in the 1800's	Jeff Watson	
10:00	Redundancy and Resilience in Extreme Natural Events	Radford Gulliver	Ecan
10:20	Morning Tea		
11:00	The Auckland Anniversary Floods	Shane Sullivan, Georgia Spankie	Auckland Council
11:20	Integration & Automation of Video Recording Cameras into Greater Wellington Regional Council Flood Monitoring & Hydrology Network	Hamish Ogilvile	GWRC
11:40	Overcoming surveying challenges, STIV camera installation at the Hurunui River	Hamish Sutton	NIWA
12:00	At the leading edge of standardised methods: Australian National Guidelines for Surface Velocity Methods	Mark Randell	Queensland Government
12:20	Lunch		
13:20	Keynote 2: QRev Software Part2	Dave Mueller	Genesis Hydrotech
14:00	A Case For Non-Contact Flow Measurement Technology	Andre Wyzenbeek	John Morrison Group
14:20	FluViSat – Can we measure river velocities and discharge from space?	Mark Randell	Queensland Government
14:40	Bubbler Orifice and Averaging Innovation	Evan Baddock	NIWA
15:00	Afternoon Tea		
15:30	An Open-Source Open-Hardware Data Recorder for Environmental Monitoring Applications	Dr. James Quilty	Victoria University of Wellington
15:50	Advancing Data Quality During the COVID-19 Pandemic	Nicole Nally	Aquatic Infomatics
16:10	Web innovations to make environmental data more accessible	Paul Sheahan	Kisters
16:30	Applying computer vision approaches to stream gauging	Daniel Wagenaar	Xylem
18:00	Workshop Dinner & Drinks		

Friday 31 st March			
Time	Item	Speaker	Organisation
9:00	Keynote 3: Advance ADCP	Dave Mueller	Genesis Hydrotech
9:40	Comparison of high frequency nitrate sensors and consequences for data quality.	Lucy McKergow	NIWA
10:00	High frequency nitrate monitoring - ESR's experience using the Trios-Opus	Phil Abraham	ESR
10:20	Morning Tea		
11:00	QUALITY NOT QUANTITY: LESSONS LEARNT WHILE COLLECTING HIGH FREQUENCY NITRATE CONCENTRATION DATA AROUND NEW ZEALAND	Alex Vincent	NIWA
11:20	High frequency visual clarity sensing – challenges and seeing a way forward.	Lucy McKergow	NIWA
11:40	Finding legal solutions to preventing theft at water level sites	Annette Carshalton	Northland Council
12:00	Prize Giving and Close		

Theme Key

Floods Storms
Data capture
HR, Legal
Nitrate/ WQ
Velocity measurement
Data Quality