

NEW ZEALAND
Association for the Properties of
WATER & STEAM



Tō AOTEAROA
Ranga mō ngā Āhuatanga o te
WAI ME TE MAMAOA

SYMPOSIUM 2026

07 - 09 SEPTEMBER, NOVOTEL, ROTORUA



Production and use in New Zealand of steam and water/steam chemistry related issues from fossil, geothermal, biomass and electrical boiler systems.

11:00 am - 5:30 pm	Monday 7 th September	Registration, lunch and networking drinks
8:30 am - 5:50 pm	Tuesday 8 th September	Full day - including a symposium dinner
8:30 am - 1:00 pm	Wednesday 9 th September	Half day - including lunch

Registration and Information online

<https://na.eventscloud.com/ereg/newreg.php?eventid=8752256>

THE SYMPOSIUM IS SUPPORTED BY:

The International Association for the Properties of Water and Steam. www.iapws.org

The New Zealand Geothermal Association
www.nzgeothermal.org.nz

INTERNATIONAL
ASSOCIATION
FOR THE PROPERTIES
OF WATER & STEAM



NZAPWS 2026 IS PROUDLY SPONSORED BY:





The New Zealand Association for the Properties of Water and Steam (NZAPWS) 2026 Symposium is a three day event following on from the highly successful 2024 meeting held in Queenstown.

This workshop consists of presentations and discussions relating to the production and use in New Zealand of steam and water/steam chemistry related issues from fossil, geothermal, biomass and electrical boiler systems from users, suppliers, researchers and others involved in industry with both a wide selection of national and international presenters, experts and sponsors. National and international speakers will be presenting at the meeting with ample opportunity for discussions.

Networking and informal discussion time is also included to further facilitate experience and knowledge sharing as well as the opportunity to visit sponsor displays.

Part days on the Monday and Wednesday are provided to facilitate travel to and from the event and to gently encourage full attendance across the whole program.

THE SYMPOSIUM IS SUPPORTED BY THE INTERNATIONAL ASSOCIATION FOR THE PROPERTIES OF WATER AND STEAM
www.iapws.org

WHO SHOULD ATTEND?

Engineers, scientists, operators, engineers, vendors and managers who work with, manage, design or maintain industrial, power generating or geothermal steam plants.

KEY INTERNATIONAL AND DOMESTIC PRESENTERS INCLUDE:

Monika Nielsen, Denmark.

IAPWS President, Orsted Lead Chemistry Specialist – Chemistry, Bioenergy

David Addison, New Zealand.

Chairperson NZAPWS, IAPWS Power Cycle Chemistry Chairperson, Principal Consultant Thermal Chemistry Limited

Ian Richardson, New Zealand.

Head of Geothermal Innovation, Contact Energy Limited

Lukas Stabb, Switzerland.

CMO Waltron USA

Chris Morris, New Zealand.

Lead Engineer, Mechanical, Geothermal, Contact Energy Limited

Dr Ken Yoshida, Japan.

IAPWS Physical Chemistry of Aqueous Solutions Chairperson, Associate Professor, Tokushima University

For further information contact the NZAPWS Chairperson, David Addison.

Email: david.addison@thermalchemistry.com Phone: +64 21 843 762 with any questions.

NZAPWS SYMPOSIUM 2026 PROGRAM

DAY 1: MONDAY 7TH SEPTEMBER

11:00	-	12:00	REGISTRATION OPEN Venue: Batten 1 & 2	MECCA	
12:00	-	13:00	LUNCH sponsored by AURECON Venue: Batten 1 & 2	SPONSORS DISPLAYS	
13:00	-	13:20	Intro to NZAPWS 2026 Symposium and IAPWS/PCC 2026 Update	David Addison NZAPWS Chairperson	New Zealand
13:20	-	14:00	KEYNOTE Confessions of a Turbine Mechanic - Trying to keep geothermal turbines supplied with dirty steam going	Chris Morris Contact Energy, Lead Engineer - Mechanical	New Zealand
14:00	-	14:25	KEYNOTE Orsted Carbon Capture Projects Summary and Technology	Monika Nielsen Orsted, Lead Chemistry Specialist - Chemistry, Bioenergy, IAPWS President	Denmark
14:25	-	14:50	IAPWS Latest international learnings, experience and issues with electrode boilers	David Addison Thermal Chemistry, Principal Consultant IAPWS Power Cycle Chemistry Chair	New Zealand
14:50	-	15:00	Sponsor presentation - Swan Analytical Australia Pacific		
15:00	-	15:10	Sponsor presentation - Sentry Equipment		
15:10	-	15:45	AFTERNOON TEA sponsored by H2O ENGINEERING Venue: Batten 1 & 2	SPONSORS DISPLAYS	
15:45	-	16:10	Why Milk Is Not Water: The Importance of Accurate Fluid Property Models for Utility Design	Dr Ben Lincoln Waikato University, Research Fellow	New Zealand
16:10	-	16:35	Fonterra Energy Strategy	Jack Ballagah & Tom Maguire Fonterra, Energy Engineer Fonterra, Utilities Engineering Manager	New Zealand
16:35	-	17:00	Dos and Don't of Chilled Water Loop Management	Thomas Fillary Visentia - Industrial Water & Legionella Specialist	New Zealand
17:00	-	17:25	Energy Transition - Recent Learnings	Robert Barrack Aurecon, Technical Director, Process Systems	New Zealand
17:25	-	17:30	Wrap up of Day 1	David Addison NZAPWS Chairperson	New Zealand
17:30	-	19:30	NZAPWS WELCOME RECEPTION sponsored by WINDSOR Venue: Batten 1 & 2		

NZAPWS SYMPOSIUM 2026 PROGRAM

DAY 2: TUESDAY 8TH SEPTEMBER

8:00	-	8:30	REGISTRATION AND ARRIVAL Venue: Batten 1 & 2	COFFEE CART SPONSORED BY UTREX	
8:30	-	8:35	Welcome to Day 2	David Addison NZAPWS Chairperson	New Zealand
8:35	-	9:20	KEYNOTE Computer Modelling to Support Energy Transition, Reduce Operational Risk, and Improve Industrial Safety	Paul Bosauder & Karen Whitehead Sequence, Technical Director, Windsor -Sr. Mechanical Design Engineer	New Zealand
9:20	-	9:50	KEYNOTE Film-Forming Amines Under the Microscope: From Molecular Structure to Corrosion Protection in Water-Steam Cycles	Dr Ken Yoshida Tokushima University, Associate Professor IAPWS Physical Chemistry of Aqueous Solutions (PCAS) Working Group Chairperson	Japan
9:50	-	10:15	Water Treatment Plant Fault Finding	Judy Weir Thermal Chemistry Limited, Chemistry Consultant	New Zealand
10:15	-	10:25	Sponsor presentation - RTR Group		
10:25	-	11:00	MORNING TEA - sponsored by SOLENIS Venue: Batten 1 & 2	SPONSORS DISPLAYS	
11:00	-	11:25	Please don't put acid in your caustic tank - bulk chemical delivery current safe practices	Seaton Rolleston IXOM, Sales Manager - Water	New Zealand
11:25	-	11:50	Steam Turbine Layup with Vapor Phase Inhibitors	Seth Aandewiel Redstag, Engineer	New Zealand
11:50	-	12:15	Non Condensable Gas Emissions Reduction at Contact Energy	Ian Richardson Contact Energy, Head of Geothermal Innovation	New Zealand
12:15	-	12:25	Sponsor presentation - Visentia		
12:25	-	12:35	Sponsor presentation - Ahuora		
12:35	-	13:35	LUNCH sponsored by AURECON Venue: Batten 1 & 2	SPONSORS DISPLAYS	
13:35	-	14:00	Experiences with a electrode boiler	Ross Jones Woolworks - Engineering Manager	New Zealand
14:00	-	14:25	Water-Steam Chemistry - Data to Decisions	Dr Nellie Olsen Thermal Chemistry Limited, Chemistry Consultant	New Zealand
14:25	-	14:50	Nordic IAPWS European Electrode Boiler Issues and Experiences	Monika Nielsen Orsted, Lead Chemistry Specialist - Chemistry, Bioenergy. IAPWS President	Denmark
14:50	-	15:15	Important Properties and test methodologies for Ion Exchange resins used in the Thermal Power and Industrial Steam Industries	James Rose Sunresin, VP Core Sales	UK/China
15:15	-	15:25	Open discussion time		
15:25	-	16:00	AFTERNOON TEA sponsored by IXOM Venue: Batten 1 & 2	SPONSORS DISPLAYS	
16:00	-	16:25	Highlight and learnings reel - Fonterra utilities 2026	Tom Maguire Fonterra, Utilities Engineering Manager	New Zealand
16:25	-	16:50	Improvements to corrosion product sampling and analysis at Loy Yang B	Duncan McAallister Loy Yang B Power Station, Chemical & Environmental Team Leader AUSAPWS Chair, IAPWS President Elect	Australia
16:50	-	17:15	Severe external corrosion on a condenser tube - Root Cause Analysis	Anita Zunker PEI, Engineering Manager	New Zealand
17:15	-	17:25	Wrap up of Day 2	David Addison NZAPWS Chairperson	New Zealand
19:00	-	22:30	NZAPWS Dinner sponsored by ECOLAB Venue: Terrace Kitchen - 1029 Tutaneikai Street, Rotorua		

NZAPWS SYMPOSIUM 2024 PROGRAM

DAY 3: WEDNESDAY 9TH SEPTEMBER

8:00	-	8:30	REGISTRATION AND ARRIVAL Venue: Batten 1 & 2	COFFEE CART SPONSORED BY UTREX	
8:30	-	8:35	Welcome to Day 3	David Addison NZAPWS Chairperson	New Zealand
8:35	-	9:00	KEYNOTE High temperature heat pumps and steam compressor - water/steam chemistry potential issues	David Addison Thermal Chemistry, Principal Consultant IAPWS Power Cycle Chemistry Chair	New Zealand
9:00	-	9:25	Now Operational: New Zealand's First Steam-Generating Heat Pump	Dr Keegan Hall Waikato University, Research Fellow	New Zealand
9:25	-	9:50	Fonterra and High Temperature Heat Pumps	Jack Ballagah Fonterra, Engergy Engineer	New Zealand
9:50	-	10:15	Optical dissolved oxygen analysis for power and industrial applications	Lukas Stabb Waltron, Chief Marketing Officer	Switzerland/ USA
10:15	-	10:30	Open discussion time		
10:30	-	11:05	MORNING TEA sponsored by PEI Venue: Batten 1 & 2	SPONSORS DISPLAYS	
11:05	-	11:30	Reliable Corrosion Product Monitoring for Flexible Operations	David Rodman Nalco, Principal Industry Technical Consultant	Australia
11:30	-	11:55	Learnings from Closed Loop Water Treatment	Dylan Harrison Visentia - Industrial Water & Legionella Specialist	New Zealand
11:55	-	12:20	Experience with Corrosion Product Sampling and Analysis and IAPWS Corrosion Product Decay Map in Orsted Plants	Monika Nielsen Orsted, Lead Chemistry Specialist - Chemistry, Bioenergy. IAPWS President	New Zealand
12:20	-	12:30	Wrap up of Day 3 and closing remarks	David Addison NZAPWS Chairperson	New Zealand
12:30	-	13:30	LUNCH sponsored by ENEgy PLANT SOLUTIONS Venue: Batten 1 & 2		



