



SYMPOSIUM 2024

27-29 August 2024, Crowne Plaza Queenstown



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	Tuesday 27th	Half day (including evening networking drinks)
8:30 am - 6:00 pm	Wednesday 28th	Full day (including a symposium dinner)
9:00 am - 1:30 pm	Thursday 29th	Half day

Registration open from 11:00am on Tuesday 27th at Crowne Plaza, Queenstown

Information and Registration online at: na.eventscloud.com/ereg/newreg.php?eventid=793510&

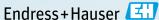
NZAPWS 2024 IS PROUDLY SPONSORED BY:







































The New Zealand Association for the Properties of Water and Steam (NZAPWS) 2024 Symposium is a three day event following on from the highly successful 2022 meeting held in Rotorua.

Half days on the Tuesday and Thursday are provided to facilitate travel to and from the event and to gently encourage full attendance across the whole program.

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

THE SYMPOSIUM IS SUPPORTED BY THE INTERNATIONAL ASSOCIATION FOR THE PROPERTIES OF WATER AND STEAM

WWW.iapws.org

WHO SHOULD ATTEND?

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

KEY INTERNATIONAL AND DOMESTIC PRESENTERS INCLUDE:

Monika Nielsen, Denmark, Chairperson Nordic IAPWS, Incoming IAPWS President, Orsted Lead Chemistry Specialist - Chemistry, Bioenergy

David Addison, New Zealand, Chairperson NZAPWS, IAPWS Power Cycle Chemistry Chairperson, Principal Consultant Thermal Chemistry Limited

Livio Compagnino, Switzerland, Swan Analytical Instruments, Technical Support Manager

Scott Bryan, USA, Product Manager - Water Treatment & Coating Additives, Cortect

Robert Barrack, New Zealand, Technical Director, Process Systems, Aurecon

Scott Waddell, New Zealand, Project Manager, Matara Valley Milk

Dave Rodman, Australia, Snr Industry Technical Consultant, Nalco

Anita Zunker, New Zealand, Engineering Manager PEI Group

Justin West, Australia, Principal Consultant, Industrial Water Solutions, Australia

Matt Harris, Australia, Principal Scientist, AGL,

Luc Turner, Australia, Solutions Manager, Solutions, Endress & Hauser

For further information contact the NZAPWS Chairperson, David Addison.

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

NZAPWS SYMPOSIUM 2024 PROGRAM DAY 1 TUESDAY 27TH AUGUST

11:00	-	12:00	REGISTRATION OPEN	MECCA
12:00	-	13:00	LUNCH - SPONSORED BY PUROLITE Atrium at Crowne Plaza	SPONSORS DISPLAYS
13:00	-	13:20	Intro to NZAPWS 2024 Symposium	David Addison NZAPWS Chairperson
13:20	-	14:00	Orsted's electrode boiler experiences and water/steam issues - steam and hot water	Monika Nielsen Orsted/Nordic IAPWS, Lead Chemistry Specialist - Chemistry, Bioenergy
14:00	-	14:25	Accelerating NZ's energy transition with demand flexibility	Daniel Pereira and Jade Jackson Talley's Group Limited, Energy Projects Engineer and Simply Energy, Head of Energy Transition
14:25	-	14:50	New Zealand's first high pressure electrode boiler installation	Scott Waddell Mataura Valley Milk, Project Manager
14:50	-	15:00	Sponsor presentation - Energy Plant Solutions	ENERGY PLANT SOLUTIONS
15:00	-	15:10	Sponsor presentation - Cortec (AS Harrison)	CORREC CORROLATION It was made for 600 for favorages
15:10	-	15:45	AFTERNOON TEA - SPONSORED BY AURECON Atrium at Crowne Plaza	SPONSORS DISPLAYS
15:45	-	16:10	Critical Considerations when purchasing a demineralisation plant	Judy Weir Thermal Chemistry Limited, Chemistry Consultant
16:10	-	16:35	Introduction of ammonia into dairy plant steam treatment via IAPWS Technical Guidance Documents	Thomas Fillary Visentia, Chemical & Process Engineer
16:35	-	17:00	VPCI® technology compared to other preservation options	Scott Bryan Cortec, Product Manager - Water Treatment & Coating Additives
17:00	-	17:25	Battery storage and electrode boiler integration	Brendon Stephenson Energy Plant Solutions, Director
17:25	-	17:30	Wrap up of Day 1	David Addison NZAPWS Chairperson
17:30	-	19:30	NZAPWS WELCOME RECEPTION - SPONSORED BY UTREX Atrium at Crowne Plaza	

NZAPWS SYMPOSIUM 2024 PROGRAM DAY 2 WEDNESDAY 28TH AUGUST

8:30 - 8:35	Welcome to Day 2	David Addison NZAPWS Chairperson
8:35 - 9:00	Industrial Plants - Non IAPWS chemistry operation vs how it should be	Justin West Industrial Water Solutions, Principal Consultant
9:00 - 9:25	The Decarb Toolkit for NZ Industry: How do the technology options stack up in NZ?	Robert Barrack Aurecon, Technical Director, Process Systems
9:25 - 9:50	Industrial plant water/steam analysis considerations	Livio Compagnino Swan Instruments, Technical Support Manager
9:50 - 10:15	Orsted's biomass boiler plants overview - wood pellets, wood strips, straw plants	Monika Nielsen Orsted/Nordic IAPWS, Lead Chemistry Specialist - Chemistry, Bioenergy
10:15 - 10:25	Sponsor presentation - Veolia	○ VEOLIA
10:25 - 11:00	MORNING TEA - SPONSORED BY ENDRESS & HAUSER Atrium at Crowne Plaza	SPONSORS DISPLAYS
11:00 - 11:25	Mitigating technical risk on a New Zealand-first Electrode Boiler	Miles Sinclair Aurecon, Technical Director, Process Systems
11:25 - 11:50	Communicating Water/Steam issues to engineering management	Bob Weir Pinpoint Business, General Manager
11:50 - 12:15	Open technical discussion and questions	
12:15 - 12:25	Sponsor presentation - Windsor Energy	Windsor
12:25 - 12:35	Sponsor presentation - Swan Analytical Instruments	SUCATI MALITICA RESTAURTS
12:35 - 13:25	LUNCH - SPONSORED BY PUROLITE Atrium at Crowne Plaza	SPONSORS DISPLAYS
13:25 - 13:50	Boiler Feedwater with Ammonia Treatment Project Overview - team work required for success	Paul McDonald Fonterra, Clandeboye, Utilities Manager
13:50 - 14:15	Efficient, compact SWAS solutions for industrial boiler applications	Luc Turner Endress & Hauser, Solutions Manager, Solutions
14:15 - 14:40	Impact of FFS on condensation rate in evaporator tubes	Dave Rodman Nalco, Snr Industry Technical Consultant
14:40 - 15:05	Flexible Renewable Utility Systems: intergrating biomass and electrode boiler in industry	Dr Martin Atkins and Matthew Taylor Waikato University, Senior Lecture in Chemical and Process Engineering PHD student
15:05 - 15:15	Sponsor presentation - Visentia (Waltron)	Visentia better water i better lives
15:15 - 15:25	Sponsor presentation - EMC Industrial Group	EMC
15:25 - 16:00	AFTERNOON TEA - SPONSORED BY SWAN Atrium at Crowne Plaza	SPONSORS DISPLAYS
16:00 - 16:25	Flu gas condensation with carbon capture plants	Monika Nielsen Orsted/Nordic IAPWS, Lead Chemistry Specialist - Chemistry, Bioenergy
16:25 - 16:50	Computer modelling for enhancing steam plant Reliability and efficiency	Paul Bosauder Sequence, Technical Director
16:50 - 17:15	Latest IAPWS findings and research on electrode boiler corrosion and hydrogen issues	David Addison Thermal Chemistry Limited, Principal Consultant
17:15 - 17:40	Boiler Carryover - identification, consequences and management	Anita Zunker PEI, Engineering Manager
17:40 - 17:50	Wrap up of Day 2	David Addison NZAPWS Chairperson
19.00 - 22.30	NZAPWS Dinner - SPONSORED BY ECOLAB 360 Restaurant at Crowne Plaza	

NZAPWS SYMPOSIUM 2024 PROGRAM DAY 3 THURSDAY 29TH AUGUST

9:00	-	9:25	98% sulphuric acid and stainless-steel pipework failure	Matt Harris AGL, Principal Scientist
9:25	-	9:50	Use of ODA for pre service boiler cleaning and boil outs	Dylan Harrison Visentia, Industrial Water Chemist
9:50	-	10:15	Comparison of water treatment technologies for high purity water	Duncan Rosie Purolite, Technical Sales Manager (South Africa)
10:15	-	10:25	Sponsor presentation - Duff & Macintosh	Duffs Macintosh
10:25	-	10:35	Sponsor presentation - Ixom	IXOM
10:35	-	11:05	MORNING TEA - SPONSORED BY SWAN Atrium at Crowne Plaza	SPONSORS DISPLAYS
11:05	-	11:30	Solenis dual chloramine technology: Local field experiences	Peter Slijp Solenis, Technical Consultant
11:30	-	11:55	Application examples and data from Veolia's latest FDA compliant, non-nitrogen filmer technology for boilers	Nadim Yazdani Veolia, Produc Application Engineer - Boilers and Cooling systems
11:55	-	12:20	Film forming corrosion inhibitor applications for industrial Steam Plants - Pro's and Cons	David Addison Thermal Chemistry Limited, Principal Consultant
12:20	-	12:30	Wrap up of Day 3 and closing remarks	David Addison NZAPWS Chairperson
12:30	-	13:30	LUNCH - SPONSORED BY SOLENIS Atrium at Crowne Plaza	









































