

ecoforum/SustRem 2023

Tuesday October 10th Stream 1 – Atrium (Level 2)

8.30am - 8.35am Welcome and Introductions. Matt Potter, CEO, ALGA

8.35am - 8.45am Welcome to Country.

8.45am - 9.00am Official Conference Opening.

9.00am - 9.30am Opening Keynote - The Role of the Environment Protection Regulator in Addressing Contaminated Land and Groundwater. **Lee Miezis**, Chief Executive Officer, EPA Victoria.

9.30am - 9.55am Keynote - Circular Economy Innovation: Ensuring that Business, Local Government and Community Groups are Driving the Circular Economy Transition. **Matt Genever**, Interim Chief Executive Officer, Sustainability Victoria.

9.55am - 10.00am Primary Sponsor, Eurofins.

10.00am - 10.30am Morning Tea

SustRem – A World Without Waste! (Chair: Matthew Askeland, ADE Consulting Group)

10.30am - 11.10am Keynote - A Smart Vision for a Sustainable Future: SMaRT Technologies and MICROfactories™ Creating Sustainable Materials and Products from Waste. **Professor Veena Sahajwalla**, Scientia Professor and Founding Director of SMaRT Centre UNSW.

11.10am - 11.25am Using Risk Assessment to Support the Circular Economy. **Ruth Jarman**, enRiskS.

11.25am - 11.40am Risk Assessment Supporting Reuse of PFAS Impacted Soil as Part of Future Development. **Andrew Cossey**, WSP.

11.40am - 11.55am Reducing Waste Soil Through Risk Assessment. **Jean Meaklim**, WSP.

11.55am - 12.15pm Q&A

12.15pm - 12.20pm Reuse of PFAS Impacted Fire Training Water in Drought Impacted Areas. **Peter Makris**, Veolia Environmental Services.

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Tuesday October 10th Stream 1 – Atrium (Level 2)

12.20pm - 12.25pm Ambiolock, Eliminating and Controlling Risk: A PFAS Management Strategy. **Grant Scott**, KiStrategies.

12.25pm - 12.30pm The Relationship Between Site History and Contaminated Land Risk - An Analysis of 13 Years of Contaminated Land Risk Assessments in Victoria, Australia. **Victor Kabay**, Cleanaway.

12.30pm - 1.30pm Lunch

SustRem – Social Sustainability: What do People Expect? (Chaired: Scott Carroll, Liberty Industrial)

1.30pm - 1.45pm Why Are the Risks Acceptable for Me but Not for Others? An Example Relevant to Energy from Waste (EfW) Facilities. **Dr Jackie Wright**, enRiskS.

1.45pm - 2.00pm Science Vs Perception: Managing Community Engagement on PFAS Remediation for a Sustainable Future. **Sam Hardy**, Consentium/JBS&G.

2.00pm - 2.15pm Hydrocarbon Remediation - Where Do You Draw the Line? **Cassie Hasan**, Senversa.

2.15pm - 2.30pm A Sustainable Solution When Legacy Industrial Contamination Becomes a Community Issue. **Kirsty Greenfield**, Ramboll Australia.

2.30pm - 2.50pm Q&A.

2.50pm - 3.20pm Afternoon Tea

Early Career Land and Groundwater Professionals

3.20pm -3.30pm Keynote - A Contaminated Land Auditor's Journey of Resilience and Growth – Empowering Young Professionals to Thrive through Authenticity and Soft Skills. **Hailey Spry**, Principal Environmental Scientist at Easterly Point Environmental, Contaminated Land Specialist (CEnvP SCS), Contaminated Land Auditor (Queensland).

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Stream 1 – Atrium (Level 2)

3.30pm - 4.20pm ALGA Emerging Professionals (Chairs: Alexandra Lay, State Land Officer | Land Use Management Department of Planning, Lands and Heritage and Aidan Burrage, Environmental Scientist Graduate, Ventia)

Kirsten Cameron, WSP
Alex Brindle, RMIT University
Farah Ali, Nation Partners
Tasman Cocks, Senversa
Zihan Wang, Douglas Partners
Mitchell Gertos, UNSW
Maya Brennan, Stantec
Grace Bowdidge, Department of Planning, Lands and Heritage

Q&A

4.20pm - 5.20pm ACLCA Emerging Professionals (Chair: Larissa Willoughby, Environmental Auditor, Australian Environmental Auditors)

Sophia Giarrusso, Aurecon
Emily Smith, GHD
Jade Creber, LBWco
Hannah Bennett, GHD
Julia Schuurmans, Aurora Environmental

Q&A

5.25pm - 5.55pm Keynote - BAD RIVER: adventure on Australia's sickest water.
Beau Miles, Filmmaker.

5.55pm - 6.00pm End-of-day summary. Matt Potter, CEO, ALGA.

6.00pm - 8.00pm Welcome Drinks. Sponsored by WSP.

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Tuesday October 10th

Stream 2 - Skyline Lounge (Level 4)

10.00am - 10.30am Morning Tea

Welcome Back PFAS, we Haven't Forgotten You (Chair: Greg Stratton, principal Environmental Scientist, Jacobs)

10.30am - 10.45am Lessons Learnt: A Tier 1 National Infrastructure Project Jumping at PFAS Shadows - Just Because we can Collect a PFAS Sample Doesn't Mean we Should. **Camden McCosker**, Epic Environmental.

10.45am - 11.00am Will Landfills be the Next PFAS Management Setting in Australia? **David Burns**, EPOC.

11.00am- 11.15am Veolia In-Field PFAS Water Case Studies: Cleanup vs Sustainability. **Matt Ead**, Veolia Environmental Services.

11.15am - 11.30am RAAF Base Edinburgh – PFAS Soil Remediation. **Charles Grimison**, Ventia.

11.30am - 11.45pm PFAS Leaching from Contaminated Pavement Materials. **Prashant Srivastava**, CSIRO.

11.45am - 12.15pm Q&A

12.15pm - 12.20pm Method 533 - Determination of PFAS in Drinking Water and Laboratory Performance. **Luminita Antin**, National Measurement Institute (NMI).

12.20pm - 12.25pm Bench Scale Demonstration of In Situ Stabilisation of PFAS in Soil. **Emmylou Cooke**, Arcadis.

12.25pm - 12.30pm Immobilization of PFAS in Soil - A Case Study. **Stephanie Martin**, GHD

12.30pm - 1.30pm Lunch

Emerging and Emerged Contaminants - A Mixed Bag (Chair: Emmylou Cooke, Arcadis)

1.30pm - 1.45pm Understanding Floodwater Contamination Risks. **Simon Sharp**, EPA Victoria.

1.45pm - 2.00pm Prevalence of MTBE in Groundwater at Australian Sites. **Ken Kiefer**, ERM.

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Tuesday October 10th

Stream 2 - Skyline Lounge (Level 4)

2.00pm - 2.15pm Pharmaceutical and Personal Care Product (PPCP) Compounds in Biosolids. **Tianna Milburn**, Envirolab Services (VIC).

2.15pm - 2.30pm Exploring the Absorption of Palladium through Plant Leaves. **Zhuyun Gu**, University of Melbourne.

2.30pm - 2.45pm Q&A

2.50pm - 3.20pm Afternoon Tea

Waste and Environmental Auditors (Chair: Jonathan Thom, Nation Partners)

3:20pm - 3:35pm Major Infrastructure NSW – Lessons Learned in the Application of the Site Auditor Framework to State Significant Infrastructure Projects. **Duncan Boss-Walker**, Epic Environmental.

3.35pm - 3.50pm Fill Material Isn't What It Used to Be. **Alan Bull**, SLR Consulting Australia.

3.50pm - 4.00pm Q&A

4.00pm - 5.20pm ALGA Ecoforum Panel Discussion: Spoiled? The System of Classification and Offsite Disposal of Contaminated Soil. Does it Need Auditor Oversight? Environmental Auditors Specialist Interest Group (SIG)

Jonathan Thom, Nation Partners (chair)

Victoria: Peter Mirkov - Peraco

NSW: Brad May – Epic Environmental

WA: Shandel Coleman - Australian Environmental Auditors

SA: Jean-Paul Pearce - Australian Environmental Auditors

QLD: Louise Cartwright - Epic Environmental

5.25pm Move to Atrium (Level 1)

6.00pm - 8.00pm Welcome Drinks. Sponsored by WSP.

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Tuesday October 10th
Stream 3 - Forum (Level 1)

10.00am - 10.30am Morning Tea

Where Did All the Product Go? (Chair: Louise Cartwright, Epic Environmental)

10.30am - 10.45am The Transition from Active Remediation to Natural Source Zone Depletion (NSZD) at an LNAPL-Impacted Site, Supported by Sustainable Remediation Appraisal. **Tom Statham**, AECOM Australia.

10.45am - 11.00am Seasonal Dynamics in Natural Source Zone Depletion Rates at a Legacy Petroleum Site. **Michael Donn**, CSIRO.

11.00am - 11.15am Novel Method of Quantifying Natural Source Zone Depletion – Passive Flux Box Method. **Bobby Wang**, Stantec.

11.15am - 11.30am Complications of Assessing Natural Source Zone Depletion on Petroleum Service Station Sites. **Kathleen Prohasky**, ERM.

11.30am - 11.45pm Application of 'LNAPL Compositional Analysis' for NSZD estimates at a Crude Oil Storage Facility Impacted Site. **Ruben Espinosa**, WSP.

11.45am - 12.15pm Q&A

12.15pm - 12.20pm Reductive Dechlorination of Chlorinated Volatile Organic Compounds Using Emulsified Vegetable Oil. **Eduardo Luna**, AECOM Australia.

12.20pm - 12.25pm Effect of Biosolids Biochar on the Remediation of Australian Soil Contaminated with Diesel. **Charles Dike**, PhD Student, RMIT University.

12.25pm - 12.30pm Case Study of Operational Challenges Associated with Green/Sustainable Solutions: Treatment Wetlands and Biotower. **Mark Klemmer**, Arcadis Australia Pacific.

12.30pm - 1.30pm Lunch

Contamination Catastrophes - Nature versus Humans (Chair: Craig Cowper, Alliance Geotechnical)

1.30pm - 1.45pm Prepare for Increasing Flood Contamination Risk. **Tom Agar**, Tetra Tech Coffey.

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Tuesday October 10th Stream 3 - Forum (Level 1)

1.45pm - 2.00pm Managing Risk for a Complex, Unknown and Fire-Damaged Waste. **Robert Murray**, Enviropacific Services.

2.00pm - 2.15pm Managing Human Health Consequences following Catastrophic Weather Events. **Nicholas Mason**, WSP.

2.15pm - 2.30pm East Palestine, Ohio Train Derailment: Vinyl Chloride, Trains and the Trouble with Transport. **Judith Barnes**, Senversa.

2.30pm - 2.45pm Q&A

2.50pm - 3.20pm Afternoon Tea

Technology Demonstrations (Chair: Richard Campbell, HydroTerra)

3.20pm - 4.00pm Engineers Australia: Sustainability Awareness – How to Make a Difference. **Lara Harland** – CPEng (Civil & Environment), FIEAust, RPEQ, NER and **Steve Posselt** – FIEAust.

4.00pm - 4.20pm Constructed Floating Wetlands for Remediation of PFAS-Contaminated Water. **John Awad**, CSIRO.

4.20pm - 4.40pm In field App: Mightier Than the Pen. **Tarin Cummings**, Ventia.

4.40pm - 5.00pm On-the-Spot Hydrocarbon, Heavy Metals and Coal Tar Testing: Instant Results Revolutionizing Contaminated Site Management. **Vincent Pesquet**, Bright Environmental.

5.00pm - 5.20pm An Alternative to Dig and Dump: Reducing Volatile Contaminant Mass in Soil by Repurposing Existing Construction Machinery as Soil Treatment Units. **Jerome Reyes**, Civil Projects Manager, InSite Remediation Services.

5.25pm Move to Atrium (Level 1)

6.00pm - 8.00pm Welcome Drinks. Sponsored by WSP.

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Wednesday October 11th Stream 1 – Atrium (Level 2)

8.50am - 9.00am Welcome Day 2. Scott Carroll, President, ALGA.

9.00am - 9.55am Opening Keynote - Aboriginal People and Groundwater. **Associate Professor Bradley Moggridge**, Associate Professor in Indigenous Water Science, University of Canberra, CAWS.

9.55am - 10.00am Primary Sponsor, ADE Consulting Group.

10.00am - 10.30am Morning Tea

Emerging and Emerged Contaminants - Getting Outside the Box (Chair: Penny Flukes, GHD)

10.30am - 11.10am Keynote - Exposure to Chemicals. **Jochen Mueller**, Professor, University of Queensland.

11.10am - 11.25am A Circular Economy Outlook: Options for the Management of PFAS in Recycled Organics. **Matthew Askeland**, ADE Consulting Group.

11.25am - 11.40am Are Conservative Guideline Values and Sustainable Resource Use Pulling in Different Directions – the Case for PFAS. **Dr Carolyn Brumley**, Arcadis.

11.40am - 11.55am Forever Chemicals – What is the Least Worst Place for Them? **Gemma Williams**, Nation Partners.

11.55am - 12.10pm A Net Negative Carbon Capture Process Using Non-Toxic Solvent and Reusable Green Products. **Steven Woodard**, Montrose Environmental - ECT2.

12.10pm - 12.30pm Q&A

12.30pm - 1.00pm ALGA AGM.

12:30pm - 1:30pm Lunch

Policy and Regulation: Getting ahead of the Problem (Chair: Andrew Mitchell, ADE Consulting Group)

1.30pm - 1.50pm Keynote - Contaminated Land Policy Scan: Issues and Gaps in Addressing Contaminated Land. **Kristin Wasley**, Principal Policy Advisor - Contaminated Land, DEECA.

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Wednesday October 11th

Stream 1 – Atrium (Level 2)

1.50pm - 3.10pm Discussion Panel (Department of Energy, Environment and Climate Action) - Towards Best Practice: Exploring the Future of Contaminated Land Management in Victoria.

Skye Holcombe Henley, Manager - Environment Protection Partnerships, (Chair)

Eve Graham, Director Environment Protection

Katie Becker, Policy Officer Traditional Owner Engagement

Kristin Wasley – Contaminated Land Policy Review, Environment Protection Branch

Maggie McNamara, Director in Climate Change in Industry

Roxy Mayer-Marks, Manager Aboriginal Partnerships & Engagement

3.10am - 3.40pm Afternoon Tea

SustRem – Circular Economy: Avoidance, Reduction and Reuse (Chair: Charles Grimison, Ventia)

3.40pm - 3.55pm Chlorinated Solvent Daughter Product Management and Expedited Remediation. **Mike Mazzaresse**, AST Environmental, Inc.

3.55pm - 4.10pm True or False? Using the Biogenic Interference Calculation (BIC) to Eliminate False Petroleum Hydrocarbon Detections in Naturally Organic Soils and Waste Materials. **Francine Kelly-Hooper**, GHD.

4.10pm - 4.25pm Emerging Uses of Injectable Colloidal Carbon to Remediate PFAS in Groundwater and Sediment. **Brendan Brodie**, ERM.

4.25pm - 4.40pm Bioavailability of PFAS in Stabilized Soils: Implications for Remediation with Activated Carbon. **Dr Divina Navarro**, CSIRO Environment.

4.40pm - 4.55pm Q&A

5.05pm - 5.45pm Closing Keynote - ESG Ratings and SDG Performance - Are They Mutually Exclusive? **Roy Thun**, Senior Environmental Specialist, GHD.

5.45pm - 5.50pm Primary Sponsor. Veolia Environmental Services.

5.50pm - 6.00pm End-of-day summary. Matt Potter, CEO, ALGA.

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Wednesday October 11th

Stream 2 – Skyline Lounge (Level 4)

10.00am - 10.30am Morning Tea

Addressing Contamination in Consultation with Traditional Owners and Tangata Whenua (Chair: Dru Marsh, EPA Victoria)

10.30am - 10.45am Characterising the Exposure of Indigenous Australians to Contaminated Land. **Emmylou Cooke**, Arcadis.

10.45am - 11.00am Working with Traditional Owners in the Yamatji Nation Indigenous Land Use Agreement Area. **Simone Staaden**, Department of Planning, Land and Heritage.

11.00am - 11.15am Addressing Contamination in Consultation with Traditional Owners. **Charles Kosecki**, Epic Environmental.

11.15am - 11.30am The Value of Engagement – Learnings from Engagement with Māori to Address Treaty of Waitangi Settlement Properties Affected by Contamination. **Kim Wepasnick**, Land Information NZ - Toitu Te Whenua.

11.30am - 11.45pm Engagement with Maralinga Tjarutja on Waste Debris Pit Investigation and Remediation. **Matthew Ball**, Project Manager – Maralinga Site Maintenance Project, Department of Industry, Science and Resources.

11.45am - 12.00pm Start at the Beginning – Engagement with Tangata Whenua on a Complex Contaminated Site. **Marie McCarthy**, Tonkin + Taylor.

12.00pm - 12.30pm Q&A

12.30pm - 1:30pm Lunch

Water is Simple, but its Problems Aren't (Chair: Chris Duesterberg, Nation Partners)

1.30pm - 1.45pm When a LNAPL behaves like a DNAPL: The Diving Plume Phenomenon. **Darren Bennetts**, BlueSphere Environmental.

1.45pm - 2.00pm Sustainable Remediation of LNAPL via Bioventing at Fractured Rock Aquifer Sites. **Keith Maxfield**, AECOM Australia.

2.00pm - 2.15pm Monitoring Acid Mine Drainage: Electrical Conductivity as a Proxy for Metal Concentrations and Application in Mass Load Calculations. **Stephanie McColl**, Tetra Tech Coffey.

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Stream 2 – Skyline Lounge (Level 4)

2.15pm - 2.30pm Chlorinated Ethene Remediation in Fractured Rock, Braybrook, Victoria. **Will Ellis**, Potentia Environment (presenting for JBS&G).

2.30pm - 2.50pm Q&A

2.50pm - 2.55pm Biologging of Aquifers for Containment and Remediation of Organic Contaminants. **Santo Ragusa**, ADE Consulting Group.

2.55pm - 3.00pm Enhanced In-situ Biodegradation (EISB) – Lessons Learnt from the Field. **Nathan Northby**, Geosyntec Consultants.

3.00pm - 3.05pm Zero Valent Iron Injection, Bioaugmentation and Biostimulation at a TCE-impacted Site in Orange NSW. **Pedro Balbachevsky**, EI Australia.

3.10am - 3.40pm Afternoon Tea

SustRem – Quantifying Sustainability: Regulatory and Industry Imperatives (Chair: Matthew Tendam, Aurecon)

3.40pm - 4.40pm Panel Session: Sustainable Remediation Through the Rear-view Mirror. Matthew Tendam (Chair)
David Tully, Contaminated Land Solutions Pty Ltd
Krista MacPherson, Norton Rose Fulbright
Paul Nathaniel, Land Quality Management
Roy Thun, GHD

4.40pm - 4.45pm Department of Defence – Robertson Barracks Sustainable Remediation Design and Delivery - **Matthew Clutterham**, Ventia.

4.45pm - 4.50pm Jackson Place Remediation - GHD, Ward Civil and Environmental Engineering. **Chris Nivison-Smith**, GHD.

4.50pm - 4.55pm Client and Stakeholder Acceptance - the Key to (More) Sustainable Remediation - **Katherine Stockwell**, GHD, Development WA.

5.05pm Move to Atrium

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Wednesday October 11th
Stream 3 – Forum (Level 1)

10.00am - 10.30am Morning Tea

3D Modelling of Contamination in Soil (Chair: John Hunt, GHD)

10.30am - 12.10pm Geostatistical 3D Modelling of Contamination in Soil using EVS for Non-statisticians – Traps and Lessons Learned. Prepared and presented by **Dr Pete Beck** and **Nader El-Benni** with the assistance of **Dr John Hunt GHD**

12:10pm - 12:15pm How the Plasticene Affects Environmental Investigations. **Brooke Kelly**, Environmental Scientist, Arcadis.

12:15pm - 12:20pm Regenerable Resin – 4+ years later ... What We've Learned. **Jessica Haxen**, Montrose Environmental - ECT2.

12:20pm - 12:25pm Firing Range Stop Butt Characterisation, Stabilization and Reuse - A Holistic Approach to Heavy Metal Management. **Doug Craven**, Veolia Environmental Services.

12.30pm - 1:30pm Lunch

Emerging Contaminants & Analytical Advances (Chair: Julia Jaeger, Eurofins)

1.30pm - 1.45pm Tackling the Microplastics Analysis Challenge in Environmental Samples. **Teen Chin**, ALS Technichem.

1.45pm - 2.00pm A Novel Fast Method to Speciate Organotin Compounds in Environmental Samples Using LC-ICPMS. **Joseph Edouard**, Eurofins Environment Testing.

2.00pm - 2.15pm Mid-Infrared Spectroscopy: A New Tool to Predict Sorption and Desorption of PFAS from Soils. **Dr Shervin Kabiri**, University of Adelaide.

2.15pm - 2.30pm Microplastics: Understanding the Analysis and Implications for our Environment. **Julia Jaeger**, Eurofins Environment Testing.

2.30pm - 2.45pm PFAS Forensics – Whose PFAS is it? **Annette Nolan**, Ramboll Australia.

2.45pm - 3.10pm Q&A

3.10pm - 3.40pm Afternoon Tea

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Wednesday October 11th
Stream 3 – Forum (Level 1)

Technology Demonstrations (Chair: Mike Mercuri, Matrix Drilling)

3.40pm - 4.00pm Integrated Monitoring Systems: From Bespoke to Modular and What this Means for Your Site. **Steve Dudgeon**, HydroTerra

4.00pm - 4.20pm Ventia's Automated PFAS Water Sampling Smart Field Monitoring – Empowering Safe Data Collection Through Automation. **Mark Pickles**, Sustainability and Environment Manager, Ventia.

4.20pm - 4.40pm The Role of Artificial Intelligence (AI) in the Management of Contaminated Land: Watch this Exciting Space Evolve. **Tom Davies**, Datanest

4.40pm - 5.00pm LotSearch Digital Reporting Services. **Howard Waldron**, LotSearch.

5.05pm Move to Atrium

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Thursday October 12th Stream 1 – Atrium (Level 2)

8.30am - 8.35am Welcome Day 3. Tina Girard, Departing Board Member, ALGA.

8.35am - 9.05am Opening Keynote - U.S. Department of Defence Innovation in Installation Restoration – Managing PFAS and UXO. **Kim Spangler**, Director, Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP) .

9.05am - 9.45am Keynote - Addressing Today's Challenges, Creating Tomorrow's Solutions. **Vijay Manthripragada**, President and CEO, Montrose Environmental Group.

9.45am - 10.00am Keynote - Conflict Contamination on a World Stage. **Myroshnychenko Vasyi**, Ukrainian Ambassador to Australia.

10.00am - 10.30am Morning Tea

Emerging and Emerged Contaminants - The Good, The Bad and the Ugly (Chair: Jonathan Coffey, Epic Environmental Pty Ltd)

10.30am - 11.00am Keynote - Leveraging Talent and Cooperation for 30 Years in the US: How ITRC Partnerships Evolve to Meet of Environmental Sector Challenges. **Rebecca Higgins**, Co-Chair, Interstate Technology and Regulatory Council (ITRC).

11.00am - 11.05am ITRC Emerging Contaminants Training. **Jose Zambrana** (EPA ORD) and ITRC Emerging Contaminants Team Leader Expert.

11.05am - 11.10am ITRC Microplastics Training. **Dr Scott Coffin**, California Chief Toxicologist for Microplastics.

11.10am - 11.25am Application of PFAS in Dust Measurement Technology in Australia, Critical Environmental and Occupational Considerations. **Tim Dowle**, ADE Consulting Group.

11.25am - 11.40am Removal of Selenium from Difficult-to-treat Wastewaters Using an Innovative Reductive-adsorptive Media. **Steven Woodard**, Montrose Environmental - ECT2.

11.40am - 11.55am Preliminary Study of Respirable Crystalline Silica (RCS) Exposure Monitoring During Solid Flight Auger Drilling Works. **Ruebendraa Kantahrao**, Helia EHS.

11.55am - 12.10pm Remediating Australia's Worst Toxic Waste Dump. **Luke Cattanach**, Enviropacific Services.

12.10pm - 12.30pm Q&A



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Thursday October 12th
Stream 1 – Atrium (Level 2)

12.30pm - 1.30pm Lunch

Regulating for a Sustainable Future (Chair: Charlie Gordon, ECT2)

1.30pm - 2.30pm Panel - Australian Research Council (ARC).

Prof. Steve Weller, Executive Director, Engineering and Information Sciences,
Australian Research Council (Chair)

Prof. Patrick Cullen - University of Sydney

Prof. Denis Carroll - University of New South Wales

2.30pm - 2.45pm Early Results of Stabilization of PFAS Source Areas with Carbon Based Amendments. **Greg Stratton**, Jacobs (contractor to Dept Defence).

2.45pm - 3.00pm Remediating Legacy PFAS Sites – What is Practical and Achievable?
Penny Flukes, GHD.

3.00pm - 3.10pm Q&A

3.10pm - 3.40pm Afternoon Tea

50 shades of Green: Sustainable solutions for our past sins (Chair: Brendon Love, HAIL Environmental)

3.40pm - 3.55pm Turning Groundwater to Green Hydrogen. The Potential, the Obstacles and Which Australian States are Best Placed? **Chris Smitt**, EHS Support.

3.55pm - 4.10pm Reuse as a Sustainable Option for Management of PFAS-impacted Soils - Circular Economy at Melbourne Airport. **Carlyn Williams**, Senversa.

4.10pm - 4.20pm Q&A

4.20pm - 4.45pm Keynote - Sustainable Redevelopment of an Iconic Brownfield Site in the South of France. **Arianne Giraud**, Investment Director & Head of Environment, Ginkgo Advisor (Sustainable Urban Regeneration)

4.45pm - 5.25pm Closing Keynote - Sustainable Remediation - it's Not Enough... **Paul Nathanail**, Land Quality Management.

5.25pm - 5.30pm Primary Sponsor. ALS.

5.30pm - 5.35pm Conference close. Matt Potter, CEO, ALGA.

7.30pm - 11.00pm Conference Dinner. (pre-dinner drinks start at 5:30pm)



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Thursday October 12th

Stream 2 – Skyline Lounge (Level 4)

10.00am - 10.30am Morning Tea

SustRem – Green, Sustainable and Sustainable Resilient Remediation: What is the Difference? (Chair: Roy Thun, GHD)

10.30am - 10.45am Where Does In-Situ Thermal Remediation Fit in the Sustainability and Resilience Conversation? **Mark Klemmer**, Arcadis.

10.45am - 11.00am Insights from the Sustainable Remediation of an Agrochemical Manufacturing Facility. **Alan Thomas**, ERM.

11.00am - 11.15am Legal Drivers for ESG and Remediation Projects. **Gabrielle Guthrie**, Principal, Guthrie Legal.

11.15am - 11.30am Freeware for Sustainability Based Remediation Options Assessments – SURE Tool. **Stephen Maxwell**, Ramboll Australia.

11.30am - 11.45pm Sustainable Remediation on the Coast. **Kate McCallum**, Tetra Tech Coffey.

11.45am - 12.15pm Q&A

12.15pm - 12.20pm Health Risks for Dioxins and Furans in Australia: The National Dioxins Program and Beyond. **Kathy Phillips**, Nation Partners.

12.20pm - 12.25pm Assessment of Dominant Reeds and Rushes as PFAS Phytoremediation Candidates. **Gaelle Ng**, ERM.

12.30pm -1.30pm Lunch

SustRem – Net Zero, Climate Change and Adaptation (Chair: David Tully, Contaminated Land Solutions Pty Ltd)

1.30pm - 1.45pm Incorporating Resilience and Adaptation into the SuRF-UK Sustainable Remediation Framework. **Alan Thomas**, ERM.

1.45pm - 2.00pm Decarbonizing the Global Economy - How Can the Environmental Remediation Industry Contribute? **Francois Beaudoin**, GHD.

2.00pm - 2.15pm La Niña, Rising Groundwater Levels and the Piston Effect (Climate change/landfills/sea level rise). **Roger Gibbs**, Tetra Tech Coffey.

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Thursday October 12th

Stream 2 – Skyline Lounge (Level 4)

2.15pm - 2.30pm Durable and Adaptive Remediation May be a Better Objective - and Term of Practice. **Scott Warner**, University of Newcastle / BBJ Group.

2.30pm - 2.45pm Challenges to Leachate Management at Low-Lying Coastal Legacy Landfills due to Climate Change – a Case Study (Climate change/landfills/sea level rise). **Edward Wu**, Tetra Tech Coffey.

2.45pm - 3.10pm Q&A

3.10pm -3.40pm Afternoon Tea

Fire – Fixing the ‘Forever’ in Forever Chemicals (Chair: Nick Cowman, Cowman)

3.40pm - 3.50pm Thermal Desorption Treatment of Hazardous Substances - A Case Study. **Jasmine Stefanac**, Enviropacific Services.

3.50pm - 4.00pm Incinerability of Perfluoroalkyl Carboxylic Acids: A Thermal Stability Ranking Among Common Organic Chemicals. **Wenchao Lu**, CSIRO Environment.

4.00pm - 4.10pm PFAS Thermal destruction - Full Scale Operations. **Dr John Lucas**, Ventia.

4.10pm - 4.40pm Discussion Panel (Fire – Fixing the ‘Forever’ in Forever Chemicals)

Nick Cowman, Cowman (Chair)

Jasmine Stefanac, Enviropacific Services

Dr John Lucas, Ventia

Nathan Weber, The University of Newcastle, School of Engineering

Wenchao Lu, CSIRO Environment

4.20pm Move to Atrium (Level 1) for final combined session

7.30pm - 11.00pm Conference Dinner. (pre-dinner drinks start at 5:30pm)

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Thursday October 12th
Stream 3 – Forum (Level 1)

10.00am - 10.30am Morning Tea

Explosives, Injections, Intelligence and CSI (Chair: Chris Smitt, EHS Support)

10.30am - 10.45am Nitro-glycerine Soil Investigation Using a Remote Operated Dozer. **Peter James**, Orica.

10.45am - 11.00am A Pilot Study of Using Waterjet Injection Technology to Enhance Bioremediation of Chlorinated Solvents Contamination. **Priscilla Wu**, EOS Asia Remediation

11.00am- 11.15am Ranger Mine: Pit 3 Wick Drain Installation & Injection Well Directional Drilling. **Stephen Bourhill**, Ventia.

11.15am - 11.30am Successful Implementation of an Oil Forensic Program for the Differentiation of Contamination Sources Across an Oilfield. **Ruben Espinosa**, WSP.

11.30am - 11.45pm PFAS Sensing in the Field: A Review of Screening Technologies and Low-Cost Sensing for Intelligence-Based Decision Making. **Charlie Gordon**, AU Technical Manager, ECT2.

11.45am - 12.15pm Q&A

12.15pm - 12.20pm Innovative Solution to Hazardous Acetylene Cylinders Recycling. **Damien Bassett**, National Project Development Manager, Enviropacific Services.

12.20pm - 12.25pm Successful Site Trial of In-Situ Electrochemically Enhanced Nano-Remediation for PFAS. **Emily Brown**, Photon Water.

12.25pm - 12.30pm Turnkey Process for PFAS Contaminated Liquid Treatment: PFAS Removal and Destruction. **Tom Buckley**, Synergen Met.

12.30pm - 1.30pm Lunch

The Balancing Act: Risk vs Regulation (Chair: Anne Northway, Jacobs)

1.30pm - 1.45pm Changing the Way Major Projects Address Contaminated Land Management. **Corey Bannister**, Aurecon.

1.45pm - 2.00pm Ecological Risk Assessment – Why Environmental Context Matters. **Gemma Williams**, Nation Partners.

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Thursday October 12th Stream 3 – Forum (Level 1)

2.00pm - 2.15pm Getting the Balance Right for 'Reasonably Practicable' and Sustainable Outcomes. **David Lam**, Tetra Tech Coffey.

2.15pm - 2.30pm Cases of Successful Asbestos Recycling in NSW. **Jason Clay**, Senior Principal, Contaminated Sites Auditor (NSW and WA), Senversa.

2.30pm - 2.50pm Q&A

2.50pm - 2:55pm The Fitzroy Gasworks Remediation and Urban Renewal Project. **Adam Bradley**, Department of Transport and Planning.

2.55pm - 3:00pm Rapid Onsite PFAS Plant Deployment to Flood Response. **Peter Makris**, Veolia Environmental Services.

3:00pm - 3.05pm Application of Portable LCMS in PFAS Management, **Matthew Askeland**, ADE Consulting Group.

3.10pm - 3.40pm Afternoon Tea

Technology Demonstrations (Chair: Toby Montgomery, Stantec)

3.40pm - 4.00pm Filling the Gap in Technical Training of Early Career Environmental Professionals to Activate Industry Growth. **Richard Campbell**, HydroTerra.

4.00pm - 4.20pm 70-Year-Old PFAS Impacts in Minnesota: Coupling Foam Fractionation and Destructive Technologies on Surface Water and Groundwater. **Rebecca Higgins**, Senior Hydrogeologist, East Metro PFAS Unit.

4.20pm - 4.40pm High-Energy Injection of Fluoro-Sorb® for In Situ Sequestration of PFAS. **Mike Mazzaresse**, AST Environmental, Inc.

4.20pm Move to Atrium (Level 2) for final combined session

7.30pm - 11.00pm Conference Dinner. (pre-dinner drinks start at 5:30pm)