DAY 1 – TUESDAY 2nd JULY			
	ROOM 1		
	CONFERENCE OPENING & PLENARY KEYNOTE		
09:30 – 09:55	**Conference opening & welcome**: Matthew Smyth, Director, Aqua Environment Solutions Ltd UK & Amber Bullen, Technical Director – Wastewater Services Line, AtkinsRéalis, UK **KEYNOTE: Testing the waters: Priorities for mitigating health risks from wastewater pollution** Professor David Butler, Co-Director, Centre for Water Systems, University of Exeter		
	ROOM 1	**ROOM 2**	**ROOM 3**
	PROCESS EMISSIONS	**NUTRIENT REMOVAL & RECOVERY**	**COMPLIANCE & PROCESS OPTIMISATION**
10:00 – 10:25	**Data driven, climate smart water futures – harnessing data for good** Lake, A.[1] and van Voorthuizen, E.[2], [1]Jacobs, UK, [2]Royal HaskoningDHV, Netherlands	**High efficiency batch RO for N & P removal** Bateman, G.[1], Hazard, B.[2] , Naughton, T.[3] and Burlace, L.[3] , [1]Trant Engineering Ltd, UK, [2]Te-Tech Process Solutions Ltd, UK, [3]Salinity Solutions Ltd, UK	**Augmenting SIMCAT Watercourse Modelling with GIS** Jackson, D.[1] and Wiggam, R.[2], [1]Binnies UK, [2]Thames Water, UK
10:25 -10:50	**Hydro Nation Chair Research and Innovation Programme: enabling the water sector transition beyond net zero by 2040** Escudero, A., Glasgow Caledonian University, UK	**Alternative approaches to phosphorus removal** Grundy, C. and Clarke, R., United Utilities, UK	**Process optimisation and achieving compliance at least cost - a brave new approach to wastewater treatment for Northern Ireland Water** Webster, E.[1] and Davison, P.[2], [1]AtkinsRéalis, UK, [2]Northern Ireland Water, UK

	ROOM 1	ROOM 2	ROOM 3
	PROCESS EMISSIONS	**NUTRIENT REMOVAL & RECOVERY**	**COMPLIANCE & PROCESS OPTIMISATION**
10:50 – 11:15	**N2O: Should we measure or model and what are the influencing factors generating their emissions at a Wastewater Treatment Plant?** Koodie, T.[1], Audenaert, W.[2], Vlasschaert, P.[2], Cheshire, A.[1] and Bellandi, G.[2], [1]Binnies, UK, [2]AM-Team, Belgium	**Ammonia to energy: a key decarbonisation strategy for the water sector** Powders, M.[1], McAdam, E.[1], Zhu, M.[1], Inman, D.[2], Brookes, A.[2], Vale, P.[3], Pickersgill, M.[4] and Jones, C.[4], [1]Cranfield University, UK, [2]Anglian Water, UK, [3]Severn Trent Water, UK, [4]Northumbrian Water, UK	**Exemplar WWPS - a game changer in wastewater pumping station management** Wield, N.[1], Rodger, C.[1], Black, A.[2] and Reid, J.[1], [1]Scottish Water, UK, [2]Xylem Water Solutions, UK
11:15 – 11:45	**Break and exhibition**		
11:45 – 12:10	**Going low on N2O with multiple measurement methods** Lake, A.[1], Mansell, L.[2], Kenyon, J.[2] and Jones, N.[2], [1]Jacobs, UK, [2]United Utilities, UK	**Reactive media filled constructed wetland solutions for phosphorus removal from wastewater** Freeman, A.I.[1], Troesch, S.[4], Williams, P.[1], McCarthy, N.[1], Cooper, D. J.[1], [1]ARM Group Ltd, UK, [2]South West Water, UK, [3]Galiford Try, UK, [4]Ecobird, France	**Viable ways for reliable compliance by optimising tertiary wastewater treatment assets** Wouters, J.W.[1], Grundy, C.[2] and Narroway, Y.[2], [1]Brightwork BV, Netherlands, [2]United Utilities, UK
12:10 – 12:35	**Cracking the Code: AI-Powered N_2O reduction in wastewater treatment** McWeeney, B.[1], Icke, O.[2] and Tiemessen, N.[2] ,[1]Royal HaskoningDHV, UK, [2]Royal HaskoningDHV, Netherlands	**The Cloth and the Catalyst – a new collaboration to deliver ultra-compact and energy efficient wastewater treatment** Nair, A., Microvi Biotech, UK	**Stable and controlled mainstream HRAS, partial nitritation AGS and anammox for a suitable effluent quality** Baldi, M.[1], Carbó, O.[1,2], Teixidó, J.[2], Campabadal, M.[2], Canals, J.[2], Ordóñez, A.[2], Gutiérrez, B.[2], Magrí, A.[1], and Colprim, J.[1], [1]LEQUIA. Institute of the Environment. Universitat de Girona, Spain, [2]GS Inima Environment, Spain
12:35 – 13:00	**What have we learned so far from our wide-scale Nitrous oxide (N2O) emissions monitoring campaign?** Dai, Z. and Srinamasivayam, B., Harrison, A. and Antoniades, A., Severn Trent Water, UK	**Oxidation ditch configuration for total nitrogen removal without carbon dosing** Baloch, I., Tang, C. and Liang, S., Southern Water, UK	**New process control opportunities within wastewater treatment through real-time nitrite and nitrate monitoring** Murray, E.[1], Lynch, C.[1]and Dai, Z.[2], [1]Aquamonitrix Ltd, UK., [2]Severn Trent Water, UK
13:00 – 14:00	**Lunch and exhibition**		
14:00 – 14:25	**N2O InSites – a collaborative approach to measurement (and mitigation) of N2O** Lake, A.[1], Kimble, A.[2], O'Connor, J.[3], Foster, R.[3] and Wilson, S.[4], [1]Jacobs, UK, [2]Bi-Zen, UK, [3]South West Water, UK, [4]Newcastle University, UK	**NTPlus - sustainably feeding and watering the world - and introducing PhosPlus, decoupling agriculture from fossil fuel byproducts** Waite, M., Agua DB Ltd, UK	**Hubgrade Performance delivering energy savings at WWTP** Langdon, M. and Larsen, L. Veolia Water Technologies, UK
14:25 – 14.50	**The generic solution elements for minimizing N_2O production across different biotreatment technologies used in municipal wastewater treatment systems** Palmer, S. and Jeavons, J., Stantec, UK	**Nereda Low P Trials – Full-scale experience at Walsall Wood WwTW's** Wohling, A.[1], Townend, N.[1] and Paling, J.[2], [1]Royal HaskoningDHV, UK, [2]Severn Trent Water, UK	**Performance and operational experience of UK's first MBBR coupled with Multiflo clarification** Sandalls, C. and Baloch, I., Southern Water, UK

	ROOM 1	ROOM 2	ROOM 3	
	PROCESS EMISSIONS	**NUTRIENT REMOVAL & RECOVERY**	**COMPLIANCE & PROCESS OPTIMISATION**	
14:50 – 15:15	**BioWin and SUMO models as digital tools to predict and reduce nitrous oxide emissions from the activated sludge wastewater treatment** Nikolova-Kuscu, R.[1], Fonseca, L.[1], Bungay, S.[2] and Hume, D.[3], [1]Mott MacDonald, UK, [2]AD Ingenuity, UK, [3]Mott MacDonald, New Zealand	**An innovation success story: chemical-free process of ammonia recovery from municipal wastewater** Malek, P.[1], Tribe, H.[2], Rawlinson, D.[2] and Moulden, M.[3], [1]WSP, UK, [2]Northumbrian Water, UK, [3]Organics Group, UK	**MABR for enhanced nitrification at large wastewater treatment plants: drivers and design rationale** Guglielmi, G.[1], Coutts, D.[2], Di Pofi, M.[1], Peeters, J.[2], [1]Veolia Water Technologies and Solutions, Italy, [2]Veolia Water Technologies and Solutions, Canada	
15:15 – 15:45	**Break and exhibition**			
		SPILLS, CSOs & STORMWATER	**TECHNOLOGY SHOWCASE**	
15:45 – 16:10		**First UK trial of Mecana PCMF for primary treatment & stormwater treatment** Cooper-Smith, G.[1], Barran, A.[2], Gillman, S.[2], Headley, D.[1], Fundneider, T.[3] and Kemp, J.[3], [1]Eliquo Hydrok, UK, [2]Scottish Water, UK, [3]Mecana, Switzerland	15:45	**The next generation of MBBR media for wastewater treatment** Haylock, D.[1], Green, S.[2] and Allen, D.[3], [1]Warden Biomedia, UK, [2]SG Process, UK, [3]Waste Water Solutions (Europe) Limited, UK
	PANEL DISCUSSION: Should the UK add nutrient recovery to the Urban Waste Water Treatment Directive?		16:00	**Optimising wastewater assets: real-time data for sustainable design, performance and compliance** Kimble, A., BI-Zen Ltd, UK
16:10 – 16:35	**Chair: Dr. David Tompkins**, Associate Director, WSP **Panel:** • **Mark Craig,** Long Term Asset Strategy Lead, Chief Engineer - Asset Strategy and Performance, Severn Trent Water Ltd, UK • **Dr. Donna Rawlinson**, Commercial Manager, Northumbrian Water, UK • **Dr. Timothy Holloway,** Principal Research Scientist/Engineer (Wastewater Innovation), Thames Water, UK	**An innovative storm screen enhancement solution trial with Samatrix & Dŵr Cymru Welsh Water** Williams, F.[1], Loyns, M.[1] and Munn, S.[2], [1]Dŵr Cymru Welsh Water, UK, [2]Samantrix, UK	16:15	**Presenting Bloom: A SuDS opportunity mapper tailored to the wastewater industry** Senior, J. and Farahani, A., RPS (Tetra Tech), UK
			16:30	**See the signals - a route to using AI to spot leading indicators of environmental incidents** Leith, D., COMET, UK
16:35 – 17:00		**Designing a WwTW for 'Zero Spills'** Barlow, J.[1], Wilson, L.[1] and Marsh, S.[2], [1]Stantec, UK, [2]Yorkshire Water, UK	16:45	**Pragmatism – it's what we need** Foster, D.[1] and Morris, M.[2], [1]Huber Technology, UK, [2]SDS, UK
17:00 – 17:25		**Inflow and Infiltration: Using AI to determine the root cause of spills** Ogden, J., StormHarvester, UK	17:00	**Drowning in Data – a smart, serviceable, scalable catchment solution for Section 82 Monitoring from Xylem** Chapman, J., Hanson, D., Lang, P. and Clarke, R., Xylem Water Solutions UK Ltd, UK
			17:15	**Practical examples of APC for process optimisation for compliance, and efficiency goals of today (energy) and tomorrow (N2O)** Bouchy, L.[1], Turler, C.[2] and Dixon, A.[2], [1]Createch Solutions, Spain, [2]Dŵr Cymru Welsh Water, UK

	NETWORKING AND SOCIAL ACTIVITIES
17:25 – 18:15	**Networking drinks reception in the exhibition hall**
17:25 – 18:15	**Process Emission networking event in the Mezzanine area**
19:00	**Conference Dinner – coach departs the Hilton Garden Inn**

DAY 2 – WEDNESDAY 3rd JULY

	ROOM 1	ROOM 2	ROOM 3
		INNOVATION	NATURE BASED SOLUTIONS
09:00 – 09:25		**Decentralized Wastewater Treatment Systems (DEWATS) at Battery Park City, New York: A sustainable urban city model** Martin, I.[1], Petrosino, R.[2] and Gallagher, Z.[2], [1]Nijhuis Saur Industries, UK, [2]Natural Systems Utilities, USA	**Using an innovative Catchment Nutrient Balancing (CNB) approach to improve river water quality: A case study from a rural sub catchment in Cumbria, United Kingdom** Rajapaksha, N.[1], Airton, J.[1], Aboobakar, A.[2], Chappell, N.[3], Mindham, D.[3] and Dyer, A.[2], [1]United Utilities, UK, [2]The Rivers Trust, UK, [3]Lancaster Environment Centre, UK
09:25 – 09:50	**PANEL DISCUSSION: Process Emissions: measurement, mitigation and holistic thinking** **Chair: Steve Bungay**, Senior Partner, AD Ingenuity LLP **Panel:** • **Kenneth McGibbon**, Technical Director, Mott MacDonald • **Amanda Lake**, Head of Carbon & Circular Economy, Jacobs • **Ellen van Voorthuizen,** Senior Consultant Wastewater Technology, Royal HaskoningDHV • **Dr. Ziye Dai**, Innovation Technical Expert, Severn Trent Water	**Water Industry Printfrastructure** Clarke, R.[1] and Wadley, N.[2], [1]United Utilities, UK, [2]ChangeMaker3D, UK	**Methodology for efficient prioritisation of sites for suds implementation** Adamson, G., EnginSoft UK Ltd, UK
09:50 – 10:15		**Natural Coagulant - A sustainable alternative to inorganic salts** Holland, A.[1] and Grundy, C.[2], [1]Acorn Water Ltd, Ireland, [2]United Utilities, UK	**Nature Based Solutions: are they a suitable competitor with wastewater companies' grey infrastructure?** Dawe, E.-K., Parnell-Pope, L. and Patel, N., Aqua Consultants, UK,
10:15 – 10:40		**Putting MOB to the Test: How a sustainable crop intensifies treatment for Northumbrian Water STWs** White, R.[1] and Mullins, D.[2], [1]Northumbrian Water, UK, [2]Nuvoda, USA	**UKWIR project GHG from nature based solutions** Gunnell, K. And Black, J., AtkinsRéalis, UK
10:40 – 11:10	**Break and exhibition**		

,	ROOM 1	ROOM 2	ROOM 3	
	MICROPOLLUTANTS & EMERGING CONTAMINANTS	CIRCULAR ECONOMY	TECHNOLOGY SHOWCASE	
11:10 - 11:35	**Biologically enhanced granular activated carbon filtration** Wouters, J.W.[1], Kramer, J.P.[1] and Dockx, L.[2], [1]Brightwork BV, Netherlands, [2]Aquafin, Belgium		11:10	**Nitrogen recovery from digestate and polluted wastewater with advanced ammonium air stripping technologies** van den Broek, J.[1], Buffinga, G.[1], van den Eijnde, T.[2] and Martin, I.[3], [1]Nijhuis-Byosis, Netherlands, [2]Nijhuis Saur Industries, Netherlands, [3]Nijhuis Saur Industries, UK
11:35 – 12:00	**Treating 1 billion litres of AFFF impacted water to less than 0.2ng/L for the sum of PFAS. A case study from Western Australia** Wilson, J.[1] and Farahani, A.[1], [1]SciDev, UK [2]SciDev, Australia	**Scottish Water's pathways to decarbonisation and delivery of their Circular Economy Approach** Bullen, A.[1], Kennedy, T.[2], Lee, S.[2] and Simpson, K.[2], [1]AtkinsRéalis, UK, [2]Scottish Water, UK	11:25	**Using remote earth observation techniques to find sewer exfiltration** Rabinovitch, Y. and Boukai, A., ASTERRA, Israel
			11:40	**Ammonia based aeration control** Fosten, A., In-Situ, UK
			11:55	**Minimum P for minimum pounds** Biddle, J., Bluewater Bio, UK
12:00 – 12:25	**Removal of pharmaceuticals in water using low cost materials** Coleman, H., Arnscheidt, J., Tretsiakova-McNally, S. and Nesbitt, H., Ulster University, UK	**H2 - oh, that sounds like a lot of water...** Gardener, N. and Greenwell, J., Stantec, UK	12:10	**How the Soneco® Electrocoagulation system overcomes the challenges presented by AMP8** Cooper-Smith, G. and Morgan, E., Power and Water, UK
12:25 – 12:50	**Aurea® Technology – sustainable micropollutant removal** Lavender, P.[1] and de Wilt, A.[2], [1]Royal HaskoningDHV, UK, [2]Royal HaskoningDHV, Netherlands	**Biopolymers in the Circular Economy** Shortland, G. and Clarke, R. United Utilities, UK	12:25	**Nanobubble technology - breaking down FOG & surfactants at primary treatment** Holland, A.[1] and Gendre, L.[2], [1]Acorn Water Limited, Ireland, [2]Moleaer Inc., USA
			12:40	**Innovation - Exploring pressure and its positive impact on monitoring rising mains** Hendy, M., Badger Meter, UK
12:50 – 13:45	**Lunch and exhibition**			

	ROOM 1
	PLENARY KEYNOTE & Students & Early Career Poster Award Presentation
13:45 – 14:15	**Circular Economy: stick or twist?** Dr. David Tompkins, Associate Director, WSP

	ROOM 1	ROOM 2	ROOM 3
	MICROPOLLUTANTS & EMERGING CONTAMINANTS	**CIRCULAR ECONOMY**	**SPILLS, CSOs & STORMWATER**
14:20 – 14:45	**Micropollutants treatment, the organic carbon challenge** Ruswa, E., Lake, A., Schimmoller, L., Greico, S., Manyumba, F., Jacobs, UK	**Our rich history in the circular economy and how do we realise now** Sunner, N., Stantec, UK	**Using process and network data alongside climate change forecasting to assess the climate resilience of Scottish Water's wastewater treatment asset base** Russell, E.[1], Duck, C.[2] and Thomas, D.[2], [1]Mott MacDonald, UK, [2]Scottish Water, UK
14:45 – 15:10	**Roturi®-based ozonation principle for the simultaneous reduction of ARG and trace substances** Pöschl, U., up2e!, Germany	**Cellulose recovery technology reduces the CO2 emissions of sewage treatment and recovers a valuable resource** Wessels, C.[1] and Martin, I.[2], [1]CirTec BV, Netherlands, [2]Nijhuis Saur Industries, UK	**Ceramic membrane for storm water treatment; the US experience** Bigot, B.[1], Khare, A.[2] and Snodgrass, M.[2], [1]Enpure, UK, [2]Ovivo, USA
15:10 – 15:35	**Experiences with removal and destruction of PFAS from different water sources** Broeders, E.[1], Dhawle, R.[1], Zlatkovskyi, O.[1] and Martin, I.[2], [1]Nijhuis Saur Industries, Netherlands, [2]Nijhuis Saur Industries, UK	**The future of hydrogen production in the UK water sector** Samberger, C.[1], Anderson, H.[2], Andresen, J.[3], Brow, D.[1], Cawthorne, L.[2], Futter, M.[1] and Le Roux, A., [1]Stantec, UK, [2]Ikigai, UK, [3]Heriot Watt University, UK	**Investigating in silico the impact of storm returns to wastewater treatment performance** Petropoulos, E.[1], McLachlan, I.[1] and Woodhouse, R.[2], [1]Stantec, UK, [2]Northumbrian Water, UK
15:35 – 15:45	**Grab and go drinks**		

POSTERS

A low-temperature ammonia electrolyser for wastewater treatment and hydrogen production
Latvyte, E.[1], Zhu, X.[1], Wu, L.[1], Lan, R.[1], Vale, P.[2] and Graves, J.[1], [1]Institute of Clean Growth and Future Mobility, Coventry University, UK, [2]Severn Trent Water, UK

Low-cost material for the adsorption of antibiotics
Onyekachukwu. E., Nesbitt, H., Tretsiakova-McNally, S. and Coleman, H., Ulster University, UK

Trash to treasure: harnessing the power of agricultural wastes for generating cleaner water
Abudu, L.[1], Coleman, H.[1], Oluseyi, T.[2], Tretsiakova-McNally, S.[1], Adeyemi, D.[2], Adams, L.[2], Arnscheidt, J.[1], O'Hagan, B.[1] and Bhosale, R.[1], [1]Ulster University, UK, [2]University of Lagos, Nigeria

POSTERS

From wastewater to climate impact: CREW's CO2 removal approach
Katchinoff, J.[1], Vu, K.[1], D'Ascanio, R.[1] and Planavsky, N.[2], [1]CREW Carbon, USA [2]Yale University, USA

Fixing nitrogen and the urban water cycle
Allan, C., University of Strathclyde, UK

Ammonia to energy: a key decarbonisation strategy for the water sector
Powders, M.[1], McAdam, E.[1], Zhu, M.[1], Inman, D.[2], Brookes, A.[2], Vale, P.[3], Pickersgill, M.[4] and Jones, C.[4], [1]Cranfield University, UK, [2]Anglian Water, UK, [3]Severn Trent Water, UK, [4]Northumbrian Water, UK

Natural Coagulant - A sustainable alternative to inorganic salts
Holland, A.[1] and Grundy, C.[2], [1]Acorn Water Ltd, Ireland, [2] United Utilities, UK

Ammonia based aeration control
Fosten, A., In-Situ, UK

Using process and network data alongside climate change forecasting to assess the climate resilience of Scottish Water's wastewater treatment asset base
Russell, E.[1], Duck, C.[2] and Thomas, D.[2], [1]Mott MacDonald, UK, [2]Scottish Water, UK

CREW Carbon - Removing CO2 & Greenhouse Gases from wastewater
Holland, A.[1] and Katchinoff, J.[2], [1]Acorn Water Ltd, Ireland, [2]CREW Carbon, USA

Decision support tool for the mitigation of nitrous oxide emissions
Gray, M., Hach, UK

Drowning in Data – a smart, serviceable, scalable catchment solution for Section 82 Monitoring from Xylem
Chapman, J., Hanson, D., Lang, P. and Clarke, R., Xylem Water Solutions UK Ltd, UK