



04–05 October 2023
Cranfield University Campus

Annual conference of the Constructed Wetland Association: Constructed Wetlands for Nutrient Control

Conference Programme

Wednesday 4 October

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| 09:30–09:50 | Registration and coffee | |
| 09.50–10.00 | Welcome | Gaby Dotro, CWA Chair |
| 10.00–10.40 | Keynote: Innovation in Treatment Wetlands | Carlos Arias, Aarhus University |
| 10.40–11.05 | Rural Sustainable Drainage Systems: Arable field runoff systems in Angus, Scotland | Stewart Moir, Moir Environmental |
| 11.05–11.30 | Coffee break | |
| 11.30–11.55 | Chemicals Investigation Programme: Investigating the performance of Integrated Constructed Wetlands for removal of a range of chemicals from wastewater effluent | Catherine Wilson, Atkins |
| 11.55–12.20 | Clifton Integrated Constructed Wetland, Lessons and History | Steven Spall, Severn Trent |
| 12.20–12.40 | Cranfield research pilots introduction | Gaby Dotro, CWA Chair |
| 12.40–13.40 | Lunch and Poster Exhibition | |
| 13.40–15.00 | Pilot hall tour | |
| 15.00–15.45 | Poster presentations and drinks | |
| 15.45–16.30 | CWA Accreditation panel | Matt Simpson, Dave Naismith, Geoff Sweaney, Andy Freeman |
| 16.30–16.45 | Day wrap-up and dinner arrangements | Gaby Dotro, CWA Chair |
| 19.00–23.00 | Dinner | |



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Thursday 5 October

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|-------------|--|--|
| 09.30–09.50 | Registration and coffee | |
| 09.50–10.00 | Welcome | Gaby Dotro, CWA Chair |
| 10.00–10.40 | Keynote: Delivering phosphorus capture with reactive media | Carlos Arias, Aarhus University |
| 10.40–11.05 | The development of natural apatite reactive media solutions for phosphorus removal from wastewater | Andy Freeman, ARM |
| 11.05–11.25 | Coffee break | |
| 11.25–11.50 | The Constructed Wetlands framework for nutrient neutrality | Dave Johnson, The Rivers Trust |
| 11.50–13.00 | Panel: Nutrient neutrality challenges and opportunities | Merry Albright (Border Oak) Sarah Belton (Nutrient Neutral) Vyvyan Evans (Welsh Water) Bruce Jefferson (Cranfield Univ.) Mark Jones (Natural England) Rachel Jones (Wiltshire council) Mark Lloyd (Rivers Trust) |
| 13.00–14.00 | Lunch and Poster Exhibition | |
| 14.00–14.30 | Mini workshop - how can the CWA help? | Gaby Dotro, CWA Chair |
| 14.30–14.55 | Otterpool Park Garden Town | Renuka Gunasekara, Arcadis |
| 14.55–15.20 | Landscape fit Integrated Constructed Wetlands - From Feasibility to Design and build | Russell Spencer, Binnies |
| 15.20–15.30 | Conference wrap-up | Gaby Dotro, CWA Chair |



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Keynote Speaker



Carlos Alberto Arias

Senior Researcher, Aarhus University

Carlos A. Arias' Research has been dedicated to the identification, the development and optimization of processes involved in the removal of pollutants from waters using natural based Solutions. Efforts in the research have been devoted to improving the removal, pathogens, emergent pollutants and the recovery and reuse of nutrients and the development of valorisation of resources from available from treated wastewaters. The work involves the development of innovative operational schemes, introducing the use of the intensification of constructed wetland, the preparation of soft gel reactive media and the applied research of Electroactive based systems for the treatment of polluted waters. Additional Dr Arias has worked with partners in the design and construction of wastewater treatment and run off management systems in Denmark, India, Spain, Chile, Perú, Colombia, Uruguay, Argentina, Mexico, Vietnam and China among others. He has published more than 95 papers in peer reviewed scientific journals; 11 books and book chapters; more than 250 papers in scientific conference proceedings, and 15 reports and popular science papers. Scopus author ID: 7103371639 / , orcid.org/0000-0002-6628-7564 and participates in several EU funded projects.

Posters

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| Investigating the potential in using native wetland plant species in the uptake and removal of phosphorous on lowland | Natasha Underwood |
| Integrating floating wetlands as a nature-based preliminary | Olivia Rowe |
| Assessment Of Wetland Water Quality As A Source Of Potable Water At Herefords In Northern Part Of Swaziland | Samkeliso Shabangu |
| The impact of constructed wetlands in Environmental | Ambrose Ahanga Hans |