

Welcome to this issue of NewsWire. We are delighted to introduce you to Phil Gelder who has now joined the company. We are also pleased to inform you that we have redesigned and launched our new company website www.raaltd.co.uk and that we won the the UKWIR Strategic Infiltration Research Contract. Also our recommendations on a remote Sensing and LiDAR project were accepted by Severn Trent Water. In the latter half of 2011 we were busy delivering conference papers at CCWI, the 2011 Innovyze European Water & Flood Modelling Conference and the WaPUG Autumn Conference.

Other news...

UKWIR STRATEGIC INFILTRATION CONTRACT

We are delighted to announce that we have won the UKWIR Strategic Infiltration Research Contract. With our extensive experience in Urban Drainage we are taking the lead and are responsible for the technical decision support tools. Assisting us with this project is the University of Sheffield, a specialist Economics and Investment Planning Consultant (who will develop economic decision support tools), a European Consultant (to bring in the European perspective) and Innovyze (a specialist software developer). Currently there is no recognised method to make the best economic and sustainable decision with regard to accepting infiltration flows or rehabilitating the sewer network to reduce them. With climate change and urban creep increasing the load on the current networks, it is becoming more important to understand the causes of infiltration, and the economic viability of reducing it, against the cost of accepting it. The technical objectives of the project include deriving

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Phil Gelder joins RAA as a Consultant



We are delighted to announce that Phil Gelder has joined the company. Phil will be working as a Consultant and assisting us with finding new business.

In his role as a Consultant, Phil will be developing new business leads, helping Local Authorities with their SWMP requirements, employee mentoring and training and acting as the Catchment Planner for the Severn Trent Midlands Area.

Phil has 37 years experience of working within the Sewerage and Drainage Industry. In his

last role at **Severn Trent Water** he worked as the Sewerage Asset Manager where he was responsible for helping to prepare the business for private drain and sewer transfer. He joined the Gloucester Project team following the Gloucester flooding in July 2007 as Wastewater lead focus. He led the company involvement in dealing with the aftermath of the River Severn

flooding in 2000/2001 receiving a national award for services in 2004. He also helped to prepare the business for termination of the Sewerage Agents in 1999/2000. He helped to deliver the first company 10 year Drainage Area Study programme within demanding timescales. Phil has developed BTEC courses and content, managing a delivery team of 30-40 tutors, selecting and monitoring students for five years. He was instrumental in developing and delivering numerous research projects during the last 10 years. With this extensive experience Phil is looking forward to working with you. Please contact Phil on Tel: 01922 410728 and 07546 816322 for more information.

New Website: www.raaltd.co.uk

We have re-designed and launched our new company website. The fresh, new, innovative layout has been designed to make it easier for you to navigate your way round and to access the information you require thus adding value to your business. We will be providing you with links in NewsWire that take you directly to our new website and provide you with more in-depth information.

Please take the time to have a look and we would be delighted to receive any comments or feedback from you. Follow us on Twitter @RAA_LTD

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a methodology to assess the catchment infiltration and establish methods of dealing with it. An important part of this will be having a method to identify whether infiltration should be considered as a catchmentwide problem or on a local scale. The main economic objectives will be to identify the monetary value and carbon footprint of infiltration and from there, considering the total catchment infiltration, establish the economic feasibility of accepting infiltration in the system versus addressing it. The study will consider: Baseflow Infiltration, Seasonal Infiltration, Inflow Infiltration and Tidal Infiltration.

We have been busy delivering conference papers.

Hydraulic Modeller, Jack Pickering had his paper entitled: "Cheltenham Flooding - The Next Step in an Integrated Approach" accepted by the University of Exeter. It was presented at the CCWI - Computing and Control for the Water Industry 2011 Conference on September 5th 2011 - September 7th 2011.

At the 2011 Innovyze European Water & Flood Modelling Conference held on 20th -21st September 2011, Jack also presented "InfoWorks ICM - Prototype to Product".

Ali Martin, Hydraulic Modeller, presented "Modelling Road Gullies".

Historically road gullies have not been modelled



due to the limited capability of sewer models. As the technology has developed, the potential for building more complex models has increased exponentially, and one detailed area of modelling that is now available is the ability to model road gullies accurately.

Richard Allitt presented "Reviewing the role of Contributing Areas" which examined the role of contributing areas in

urban drainage modelling in view of the advances in hydraulic modelling with greater use of 2D overland flow modelling, direct runoff and the move towards Integrated Urban Drainage Modelling.

Finally, Ed Hartwell presented "The Next Generation in SWMP" at the WaPUG Autumn Conference in Blackpool in November 2011.

Please visit our website to read the papers.

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Severn Trent Water – Digital Terrain Model Capture Specification

Richard Allitt Associates Ltd were invited to apply for recommendations on Remote Sensing and LiDAR project work and our bid was accepted and as a result we were selected by Severn Trent Water to write the specification document for their Digital Terrain Model capture.

The aim of this project is to acquire a DTM (Digital Terrain Model) for the Severn Trent Water region. It is envisaged that the DTM will be derived from multiple sources in order to reduce costs whilst ensuring a vertical accuracy that is fit for the purpose of hydraulic modelling, flood risk mapping and/or capital scheme design.

LiDAR (Light Detection and Ranging) will be used to capture a high resolution dataset which will be processed to create a 50cm dataset over urban areas within the Severn Trent catchment. This high resolution data set will assist Severn Trent Water with Flood Risk Assessments, Sewerage Management Plans and help to identify properties at high risk across the Severn Trent area. In late 2011 the requirements were successfully tendered for and the contracts have been awarded. An announcement will be made shortly.

If you think we could be of assistance to you on a similar matter please contact us and we will be happy to discuss your requirements.

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