



SUDSnet International Conference 2018

30th & 31st August 2018. Coventry University, England. UK.

Programme. Day 1- Thursday 30th Aug 2018

9.00 - 10.00 Registration

10.00 - 10.10 Introduction and conference welcome

10:10 - 10:40 KEYNOTE SPEAKERS

ROSEMARY JENKINSON & MILLY HENNAKAYE (ARUP)

Session 1 – SuDS in Challenging Environments

TIME	TITLE	AUTHOR(S)
10.40	The efficacy of Sustainable Drainage Systems (SuDs) in humanitarian settlements: a case for an alternative method in flood risk management.	<i>Mitch McTough¹, Andrew Adam-Bradford² and Sue Charlesworth²</i> <i>¹ Human Relief Foundation ² Centre for Agroecology, Water and Resilience</i>
11.00	Innovative Drainage Techniques for Surface Water Management in African Refugee Camps	<i>Oluwatoyin Opeyemi Ajibade¹ & Kiran Tota-Mahara²</i> <i>¹ University of Greenwich. ² University of West of England</i>
11.20	Arbuscular mycorrhizal colonisation of biofiltration cells at Franschoek, South Africa	<i>Liz Trenchard, Sue Charlesworth & Stephen Coupe</i> <i>Coventry University</i>
11.40	The Interplay of Green Infrastructure on Urban Heat Stresses and Stormwater Management: Southeast Asia's Urban Future	<i>K. Tota-Maharaj¹ and M. Gómez²</i> <i>¹University of the West of England, ²Polytechnic University of Catalonia, Spain</i>
12.00	Addressing disease vectors with SuDS: the Zika virus in favelas in NE Brazil	<i>R. Lewis, S. Charlesworth, M. Blackett, F. Warwick</i> <i>Coventry University</i>



Session 1 Supported by Humanitarian Innovation Fund

12.20 - 1.20 Networking LUNCH

Session 2 – Source Control SuDS: Green roofs, Planters & Plants

TIME	TITLE	AUTHOR(S)
1.20	Improving the functionality of the “sponge” – Does plant choice matter?	<i>Siti Nur Hannah Ismail, Ross W. F. Cameron and Virginia Stovin</i> <i>University of Sheffield</i>
1.40	Ecological enhancement from wildlife habitat on constructed green roofs.	<i>Sophie Barron-West¹, Stephen Coupe¹, Liz Trenchard¹ & Ben Shuttleworth²</i> <i>¹Coventry University. ²SEL Environmental Limited</i>
2.00	Seasonal variations in green roof hydrology	<i>Simon De-Ville¹ & Virginia Stovin²</i> <i>¹Loughborough University ²Sheffield University</i>
2.20	Reduction of CSO discharges and improved surface water runoff quality through the use of rainwater planters	<i>Alex Stephenson^{1,2} & Lorna Davis^{2,3}</i> <i>¹H2O Intelligence Ltd and ²SuDSPlanter Ltd ³Lorna Davis Designs</i>
2.40	Greener Gardens – Raingardens and attenuation units in residential gardens	<i>Wade, R.¹, Travers, J.² Berwick N,¹ & Peter, R.¹</i> <i>¹ Abertay University ² Lovell Homes</i>

3.00 - 3.20 Break

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Session 3 – Water Quality and Pollution Control

TIME	TITLE	AUTHOR(S)
3.20	Simulation of the fate of polycyclic aromatic hydrocarbons from storm water using a model swale mesocosm.	<i>Janine Robinson, Fay Couceiro, Joy Watts and John Williams</i> University of Portsmouth
3.40	Pollutant removal efficacies of permeable pavements comprising recycled concrete aggregates	<i>J. Monrose^{1,2} K. Tota-Maharaj¹ and A. Mwasha³</i> ¹ University of the West of England ² AECOM, Trinidad and Tobago ³ University of the West Indies
4.00	Validating a SUDS treepit for the Scottish Climate	<i>A.M. Duffy¹, D. Bowie J^o. Dalrymple², J. Akunna¹</i> ¹ Abertay University ² GreenBlue URBAN

4.00 - 4.20 BREAK

Session 4 – SuDS Education and Articulation

TIME	TITLE	AUTHOR(S)
4.20	Articulation of Stormwater in Cities	<i>Bruce Ferguson</i> Pennsylvania, USA
4.40	SuDS and Raingarden Education in Schools	<i>Rebecca Wade¹, Alison Duffy¹, Neil Berwick¹, James Travers, Patricia Dello Sterpaio</i> ¹ Abertay University
5.00	Inspiring the New Generations: Introducing SuDS at Undergraduate and Postgraduate Studies	<i>Luis A. Sañudo-Fontaneda^{1,2}, Felipe P. Alvarez-Rabanal¹, Angel Martin-Rodriguez¹, Mar Alonso-Martinez¹, Zenaída A. Hernandez-Garrastacho¹, Juan J. del Coz-Diaz¹</i> ¹ University of Oviedo. ² Coventry University

5.20 – 5.30 Discussion and Close of Day 1

7.00 for 7.30pm Conference Dinner – St Marys Guildhall

St Marys Guildhall, Bayley Lane, Coventry, CV1 5RN

www.stmarysguildhall.co.uk

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Programme. Day 2 - Friday 31st Aug 2018

9.00 – 9.30 Registration

9:30 – 10.00 KEYNOTE SPEAKERS

BRIAN SMITH (Yorkshire Water) & PROF LIAN LUNDY (Middlesex University)

Session 5 – Permeable Pavements and Filter Media

TIME	TITLE	AUTHOR(S)
10.00	Optimising Pervious Pavement Systems: A laboratory-based investigation of novel materials as water barrier/treatment systems	Natasa Tziampou¹ , Stephen J. Coupe ¹ , Luis A. Sañudo-Fontaneda ² , Alan P. Newman ¹ , Daniel Castro-Fresno ³ ¹ Coventry University ² University of Oviedo ⁴ Universidad de Cantabria
10.20	The Hydrological “end-of-life” concept for Permeable Pavement Systems: A Case Study from Northern Spain	Luis A. Sañudo-Fontaneda^{1,4} , Valerio C. Andres-Valer ² , Jorge Rodriguez-Hernandez ³ , Carlos Costales-Campa ¹ , Fernando Cadenas-Fernandez ¹ ¹ University of Oviedo. ² University Austral of Chile. ³ University of Cantabria, ⁴ Coventry University
10.40	Filter drains redesigned for the 21 st Century	Jo Bradley SDS Ltd
11.00	Porous and Permeable Pavements with Low-Carbon Manufactured Carbonated Aggregates: Environmental and Economic Perspectives	Colin D Hills^{1,2} , John Monroe ^{3,4} , Kiran Tota-Maharaj ^{2,4} and Paula Carrey ^{2,5} ¹ University of Greenwich, ² Indo:UK Centre for Environment Research and Innovation. ³ AECOM, West Indies. ⁴ University of the West of England ⁵ Carbon8 Systems Ltd.

11.20 -11.40 BREAK

Session 6 – International SuDS and Stormwater Case studies

TIME	TITLE	AUTHOR(S)
11.40	Stormwater management in United Kingdom, Denmark, Poland, Germany, Sweden and Netherlands: A comparative study of legislation, methods and systems utilised.	Lukasz Koziel & Sara Egemose SDU (University of Southern Denmark)
12.00	A catchment scale analysis of green roofs retrofit potential to mitigate hydrological risk in a Mediterranean environment	Mirka Mobilia & Antonia Longobardi University of Salerno, Italy
12.20	A new freely-available geospatial data-based methodology for the implementation and assessment of SUDS: linking GIS tools and SWMM	Beatriz I. Mendez-Fernandez¹ , Cristina Allende-Prieto² , Susanne M. Charlesworth³ , Luis A. Sañudo-Fontaneda^{1,3} ^{1&2} University of Oviedo. ³ Coventry University

12.40 -2.00 LUNCH

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Session 7 – Natural Flood Management and Rural SuDS

TIME	TITLE	AUTHOR(S)
2.00	An Approach for Identifying Opportunities and Assessing Performance of Natural Flood Risk Management techniques: A case-study in the headwaters of the Warwickshire-Avon	T. Lavers , Charlesworth S, Fried J., Warwick F. & Lashford C. Coventry University
2.20	Investigating the role of tree planting on sub-catchment level runoff in Warwickshire, England	Craig Lashford & Thomas Lavers Coventry University
2.40	Developing a Design and Build Guidance for Rural SuDS	A. Duffy¹ , S. Moir ² , N. Berwick ¹ , J. Shabashow ¹ , B. D'Arcy ¹ , R. Wade ¹ , & D. Blackwood ¹ ¹ Abertay University ² Moir Environmental Ltd,
3.00	Rural Sustainable Drainage Systems: Experience in the Field so Far	Stewart Moir Moir Environmental Ltd

3.00 - 3.20 BREAK

Session 8 – SuDS and Stakeholder Engagement

TIME	TITLE	AUTHOR(S)
3.40	Potential for retrofitting SUDS at Houston Industrial Estate, Livingston, West Lothian	Vladimir Krivtsov* , Brian J. D'Arcy, Scott Arthur & Chris Semple Heriot Watt University
4.00	A communication tool for Ecosystem Services associated with Sustainable Urban Drainage Systems	Roshni Jose¹ , Rebecca Wade ² & David Blackwood ² ¹ University of Portsmouth ³ Abertay University
4.20	Green Infrastructure survey on public perception of SuDS and the relationship with the housing market	John Williams, Cletus Moobela , David Hutchinson, Mark Gaterall & Roshni Jose. University of Portsmouth

4.40 - 5.00pm Day 2 Final Discussion and Close of Conference

5.00pm Depart

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POSTERS:

<p>HYDROLOGICAL IMPACT OF EXPANDED CLAY MATERIAL INTRODUCED IN DIFFERENT SUDS: A LABORATORY-BASED ASSESSMENT</p>	<p><i>Carlos Costales-Campa¹, Felipe P. Alvarez-Rabanal¹, Luis A. Sañudo-Fontaneda^{1,2}</i></p> <p><i>¹University Of Oviedo. ²Coventry University</i></p>	<p>ASSESSMENT OF THE POTENTIAL IMPLEMENTATION OF PERMEABLE PAVEMENT SYSTEMS IN THE SAN FRANCISCO PARK OF THE HISTORICAL CITY OF OVIEDO, NW SPAIN</p>	<p><i>¹Lucía Pérez-Martínez, ¹Almudena Ordoñez,^{2,3}Luis A. Sañudo-Fontaneda,¹Rodrigo Álvarez</i></p> <p><i>¹Department of Mining, University of Oviedo, Spain ²Department of Construction and Manufacturing Engineering, University of Oviedo, Spain ³Centre for Agroecology, Water and Resilience (CAWR), Coventry University</i></p>
<p>RETROFITTING THE HISTORICAL CITY OF OVIEDO, SPAIN: THE POTENTIAL ROLE OF SUDS IN SANTUYANO'S BOULEVARD AND "EL CAMPO DE SAN FRANCISCO"</p>	<p><i>Fabio Robleda-Alvarez¹, Nicolas Vallina-Pita¹, Ricardo Fernandez-Carrio¹, Carlos Costales-Campa¹, Almudena Ordoñez-Alonso², Luis A. Sañudo-Fontaneda^{1,3}</i></p> <p><i>^{1&2}University of Oviedo. ³Coventry University</i></p>	<p>DEX PONDS 20 YEARS ON - A LARGE SCALE RESIDENTIAL DEVELOPMENT IN SCOTLAND: CBA; PUBLIC PERCEPTION AND PERFORMANCE OBSERVATIONS</p>	<p><i>Alison Duffy UWTC, Abertay University</i></p>
<p>SOUTH AFRICAN BIOFILTERS (TITLE TO BE CONFIRMED)</p>	<p><i>Sue Charlesworth Coventry University</i></p>	<p>SUDS, GREEN INFRASTRUCTURE AND PUBLIC HEALTH</p>	<p><i>Rebecca Wade Abertay University</i></p>
<p>USING SPONGE CITY THEORY FOR THE COMPREHENSIVE EVALUATION FOR LID AND SUDS</p>	<p><i>Katherine Hyde University of Reading</i></p>	<p>SUDSNET – CELEBRATING 15 YEARS OF THE NETWORK</p>	<p><i>SUDSnet</i></p>

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