



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 SPEAKER

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 and 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 Franschhoek, 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>J. Bonasif^{1,2}, 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>¹Sophie Barron-West, ¹Stephen Coupe, ¹Liz Trenchard & ²Ben Shuttleworth.</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 University of Portsmouth</i>
3.40	Pollutant removal efficacies of permeable pavements comprising recycled concrete aggregates	<i>J. Monroe^{1,2} K. Tota-Maharaj¹ and A. Mwasha³ ¹University of the West of England ²AECOM, Trinidad and Tobago ³University of the West Indies</i>
4.00	Validating a SUDS treepit for the Scottish Climate	<i>A.M. Duffy¹, D. Bowie J². Dalrymple², J. Akunna¹ ¹Abertay University ²GreenBlue URBAN</i>

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 Pennsylvania, USA</i>
4.40	SuDS and Raingarden Education in Schools	<i>Rebecca Wade¹, Alison Duffy¹, Neil Berwick¹, James Travers, Patricia Dello Sterpaio ¹Abertay University</i>
5.00	Inspiring the New Generations: Introducing SuDS at Undergraduate and Postgraduate Studies	<i>^{1,2}Luis A. Sañudo-Fontaneda*, ¹Felipe P. Alvarez-Rabanal, ¹Angel Martin-Rodriguez, ¹Mar Alonso-Martinez, ¹Zenaida A. Hernandez-Garrastacho, ¹Juan J. del Coz-Diaz ¹University of Oviedo. ²Coventry University</i>

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 SPEAKER

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	<i>Natasa Tziampou¹, Stephen J. Coupe¹, Luis A. Sañudo-Fontaneda², Alan P. Newman¹, Daniel Castro-Fresno³</i> <i>¹Coventry University ²University of Oviedo ⁴Universidad de Cantabria</i>
10.20	The Hydrological “end-of-life” concept for Permeable Pavement Systems: A Case Study from Northern Spain	<i>Luis A. Sañudo-Fontaneda^{1,4}, Valerio C. Andres-Valer², Jorge Rodriguez-Hernandez³, Carlos Costales-Campa¹, Fernando Cadenas-Fernandez¹</i> <i>¹University of Oviedo. ²University Austral of Chile. ³University of Cantabria, ⁴Coventry University</i>
10.40	Filter drains redesigned for the 21st Century	<i>Jo Bradley</i> <i>SDS Ltd</i>
11.00	Hydrological impact of expanded clay material introduced in different SUDS: A laboratory-based assessment	<i>Carlos Costales-Campa¹, Felipe P. Alvarez-Rabanal¹, Luis A. Sañudo-Fontaneda^{1,2}</i> <i>¹University of Oviedo. ²Coventry University</i>

11.20	Porous and Permeable Pavements with Low-Carbon Manufactured Carbonated Aggregates: Environmental and Economic Perspectives	<i>Colin D Hills^{1,2*}, John Monrose^{3,4}, Kiran Tota-Maharaj^{2,4} and Paula Carrey^{2,5}</i> <i>¹University of Greenwich, ²Indo:UK Centre for Environment Research and Innovation. ³AECOM, West Indies. ⁴University of the West of England ⁵Carbon8 Systems Ltd.</i>
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11.40 -12.00 BREAK

Session 6 – International SuDS and Stormwater Case studies

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

1.00 -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	<i>Lavers T., Charlesworth S, Fried J., Warwick F. & Lashford C.</i> <i>Coventry University</i>
2.20	Investigating the role of tree planting on sub-catchment level runoff in Warwickshire, England	<i>Craig Lashford & Thomas Lavers</i> <i>Coventry University</i>
2.40	Rural Sustainable Drainage Systems: Experience in the Field so Far	<i>Stewart Moir</i> <i>Moir Environmental Ltd</i>
3.00	Developing a Design and Build Guidance for Rural SuDS	<i>A. Duffy¹, S. Moir², N. Berwick¹, J. Shabashow ¹, B. D'Arcy¹, R. Wade¹, D. Blackwood¹</i> <i>¹Abertay University</i> <i>²Moir Environmental Ltd,</i>

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	<i>Vladimir Krivtsov*, Brian J. D'Arcy, Scott Arthur and Chris Semple</i> <i>Heriot Watt University</i>
4.00	A communication tool for Ecosystem Services associated with Sustainable Urban Drainage Systems	<i>Roshni Jose¹, Rebecca Wade² and David Blackwood²</i> <i>¹University of Portsmouth</i> <i>²Abertay University</i>
4.20	Green Infrastructure survey on public perception of SuDS and the relationship with the housing market	<i>John Williams, Cletus Moobela, David Hutchinson, Mark Gaterall and Roshni Jose.</i> <i>University of Portsmouth.</i>
4.40	Retrofitting the historical city of Oviedo, Spain: The potential role of SuDS in Santuyano's Boulevard and "El Campo de San Francisco"	<i>¹Fabio Robleda-Alvarez, ¹Nicolas Vallina-Pita, ¹Ricardo Fernandez-Carrio, ¹Carlos Costales-Campa, ²Almudena Ordoñez-Alonso, ^{1,3}Luis A. Sañudo-Fontaneda</i> <i>^{1&2}University of Oviedo.</i> <i>³Coventry University</i>

5.00 - 5.20pm Day 2 Final Discussion and Close of Conference

5.30pm Depart

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