

Agenda

● AfricaSan5 ■ FSM5

MONDAY, 18 FEBRUARY 2019

8:00–16:00	Field Trips
14:00–19:00	Registration / Ground Floor
17:00–19:30	Welcome Reception / Ballroom

TUESDAY, 19 FEBRUARY 2019

9:00–10:30	Opening Plenary / Auditorium
10:30–11:00	Break
11:00–12:30	<p>■ City Case Studies Track: Local Level Policy / Meeting Room 2.6</p> <ul style="list-style-type: none"> • Integrated Faecal Sludge-Based Business Models: Insights from Empirical Cases in Developing Countries <i>Solomie Gebrezgabher, Miriam Otoo</i> • Strategy for an Enabling Environment on FSM in the French Speaking Cities <i>Arianna Ardesi, Pierre-Henri Dodane, Albin Lazare</i> • FSM an Integral of Total Sanitation: A Case Study of Gulariya Municipality, Nepal <i>Prajwal Shrestha, Bipin Dangol, Rajendra Shrestha, Dev D. Bhatta</i> • Towards National and Global Monitoring of Faecal Sludge Management <i>Richard Johnston, Tom Slaymaker</i> <hr/> <p>■ Industry and Exhibition Track: Data, Tools, and Information / Meeting Room 2.4.1</p> <ul style="list-style-type: none"> • Management Information System for Septage Management for the State of Tamil Nadu, India <i>Ganeshkumar, M., Kavita Wankhade, Rajiv Raman, Reeba Devaraj, Sam Daniel Rajkumar, Srinithi Sudhakar Moopnar</i> • Pula: A Data-Driven Mobile App to Support Sanitation Authorities in Delivering Safe Services <i>Jakob Kisker, Sam Drabble</i> • IT Enabled Online Monitoring Systems for Scheduled Septic Tank Emptying—Sinnar, India <i>Dinesh Mehta, Meera Mehta, Aasim Mansuri, Dhruv Bhavsar</i> • How Urban Sanitation Data Standards Will Accelerate Progress to SDG 6.2 <i>Lindsey Noakes</i> • Scheduled De-Sludging Tool for a Systematic Approach to De-Sludging in Karunguzhi <i>S. Palanisamy, S.M. Malayaman Thirumudikari, Molly Hepzibha Grace D., Mohanram Chandrasekaran</i>

■ **Applied Research Track: Financing and Business** / Auditorium

- A Framework for Supporting Innovative Financing for Improving Urban Sanitation in Ghana
Jonathan Parkinson, James Parsons, Luiza Campos, Priti Parikh
- Top-Down or Bottom-Up: A Decision-Making Framework for FSM Implementation in Urban India
Christopher Hyun
- Techno-Commercial Comparison of FSTP Tenders across Indian States during 2016–2018
Shriram Bharathan R., Shruti Gupta, Deepak Y.D., N. Sampath Kumar
- Marketing Strategies and Demand Creation for Scaling a Pit Emptying Business in Kigali-Rwanda
Sarah Lebu, Rachel Sklar
- Lifecycle Cost Comparison of Fecal-Sludge and Sewer-Based Sanitation Systems in India
Jeannette Laramee, Chengyan Zhang, Yashodhan Dhopavkar, Maureen Kesaano, Mengli Shi, Anantha Moory, Rohini Pradeep, Andrew Helminger, Andrea Stowell

● **Hygiene and the SDGs: Leave No One Behind** / Meeting Room 1.4

Challenges and Opportunities in Rural and Urban Sanitation in Africa
SNV, Socio-Economic Rights Institute (SERI)

● **Policies, Institutions and Regulation** / Meeting Room 2.4.4

Governance Experiences in the African Sanitation and Hygiene Sector—
Framework Conditions for the SDG6 Linking Global and National Targets
*Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH;
Ministry of Water and Sanitation, Sénégal*

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation** / Meeting Room 1.6

Country-Led Monitoring of Sanitation Goals and Commitments
*UNICEF WCARO; Ministry of Water and Environment, Uganda;
Ministry of Water and Sanitation, Mauritania*

12:30–13:30 **Lunch** / Ballroom

12:45–13:45 **AfricaSan Awards** / Ballroom

13:30–14:30 **Expo, Poster Session, Interactive Sessions** / Ballroom

14:30–16:00 ■ **City Case Studies Track: National Policy** / Meeting Room 2.6

- Embedding and Scaling an Innovative PPP Model for Citywide Services in Dhaka, Bangladesh
Habibur Rahman, Amirul Hasan, Rosie Renouf, Sam Drabble
 - Skilling FSSM Workforce in Urban India
Manvita Baradi, Meghna Malhotra
 - Learning from Experiences: National Initiatives in FSM Implementation in Indonesia
Aldy Mardikanto, Rudy Yuwono, Sofyan Iskandar, Immanuel Ginting
 - Learning from 20 Case Studies on the Business, Policy and Technology of FSM
Isabel Blackett, Peter Hawkins
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■ **Industry and Exhibition Track: Container Based Systems and Capacity Building /**

Meeting Room 2.4.1

- Capacity Building across the Fecal Sludge Management and Non-Sewered Sanitation Service Chain
Yaye Sophietou Diop
- Public-Private Partnership to Achieve Safely Managed Sanitation: NAIVAWASS & Sanivation
Andrew Foote, Katherine Bohnert, Dickson Ochieng Johnson Kamau Njuguna, Joseph Maina Theuri, Nahashon Wahome
- Evidence for the Integration of Menstrual Hygiene Management in WASH Facilities
Myles Elledge, Alison Weber, Alison Parker, Kristen Ravndal, Anju Toolaram, Arundati Muralidharan, Varsha Thakkar, Sudha Ramalingam, Subhashini Ganesan, Kavitha Harsa
- Accelerating Container Based Sanitation Scaling through Mobile IT: Lessons from Product Development
Professor Kory Russel, Mary Roach, Erica Lloyd
- Going Glocal: Delivering FSM Models for Global Cities
Mary Roach, Virginia Gardiner
- BCC Strategy Implementation: A Success Story of Khulna City Corporation (KCC), Bangladesh
Sam Husain, Rajeev Munankami

■ **Applied Research Track: Technology and Innovation / Auditorium**

- Bring on the RevoluSAN: South Africa's Response to next Generation Sanitation
Jay Bhagwan, Valerie Naidoo, Sudhir Pillay
- Road to Commercialising Sanitation Technologies: Engineering Field Testing Platform in Durban, South Africa
Ruth Cottingham, Nick Alcock, Lawrence Ngubane, Teddy Gounden, Chris Buckley, Susan Mercer, Rebecca Sindall, Catherine Sutherland
- The Flexcrevator: Development and Field Testing of Mechanized Pit Emptying with Trash Exclusion
Giovanna Portioli, Tate W. Rogers, Walter Beckwith, Jocelyn Tsai, Nicola Greene, Payan Oye-Moi, Noel Wilson, Charlie Sellers, Francis L. de los Reyes III
- Progress in Faecal Sludge Dewatering
Barbara J. Ward, Stanley Sam, Eberhard Morgenroth, Linda Strande
- Potential of the Use of a Thermal Drying System for Faecal Sludge Drying
S. Septien, T.R. Mugauri, A. Singh, F. Inambao

● **Hygiene and the SDGs: Leave No One Behind / Meeting Room 1.4**

Leave No One Behind Programming and a Multi-Stakeholder Approach for Inclusive Sanitation Provision

Amref Health Africa, Kenya; WaterAid, Burkina Faso

● **Policies, Institutions and Regulation / Meeting Room 2.4.4**

How Sanitation Law Creates an Enabling Environment for SDG6 and Ngor Commitment Advancement

The Center for Water Security and Cooperation

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation** / Meeting Room 1.6

Measuring the Last Mile: Assessing New Equity and Sustainability Data across African Countries

WSSCC; Global Communities; JMP; Ministry of Health, Kenya; Plan Tanzania; SWA; UNICEF; WHO

16:00–16:30 **Break**

16:30–17:30 ■ **Plenary** / Auditorium

16:30–18:00 ● **Civil Society Dialogue** / Meeting Room 1.4

African Civil Society Network for Water and Sanitation (ANEW)

● **Development Partners Dialogue** / Meeting Room 1.6

African Development Bank

● **Local Authorities Dialogue** / Meeting Room 2.6

African Water Association

● **Private Sector Dialogue** / Meeting Room 2.4.4

Partnerships in Practice

WEDNESDAY, 20 FEBRUARY 2019

9:00–10:30 ■ **Plenary** / Auditorium

10:30–11:30 **Break**

11:30–13:00 ■ **City Case Studies Track: Faecal Sludge Removal and Transport** / Meeting Room 2.6

- Piloting Mobile Faecal Sludge Transfer Stations in Kampala City, Uganda
Martin Nyanzi Maweje
 - Scaling Pit Emptying Services through Pit Emptiers Association in Blantyre City, Malawi
Brian Mulenga
 - Performance Based Contracts for Private Sector in FSM Services Maharashtra, India
Dinesh Mehta , Aditi Dwivedi , Aasim Mansuri, Meera Mehta
 - Complexities Around Public Private Partnerships within the Circular Economy in Durban, South Africa
Teddy Gounden
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■ **Industry and Exhibition Track: Treatment—Emptying, Technology, and Standards /**

Meeting Room 2.4.1

- Validation Testing of the ISO 30500 Standard on Innovative Non-Sewered Sanitation Systems (NSSS)
S.Z. Abdullah, M.Y. Chan, R. Lee
- Value-Added, Pathogen-Free Thermal Treatment Solutions That Comply with ISO/PC 318 Energy Neutrality Requirements
August Frechette, Lars Schoebitz, Kathy Jooss, Lauren Harroff, Nico Hotz, Edgard Ngaboyamahina, Berta Moya, Brian Stoner
- Is There a Business Case for Mechanical Pit Latrine Emptying Machines?
Dr. Nicola Greene, Tate W. Rogers, Jocelyn Tsai, Francis L. de los Reyes III
- Improving FSM Investment Decisions by Estimating Total Solids from Rapid In-Situ Penetrometer Tests
Jamie Radford, Chloe Underdown, Jonathan Choksey, Martin Mawejje, Loretta Nakayima, Steve Sugden
- Safely Removing Consolidated Manually Emptied Pit Latrine Waste from Urban Slums, Nairobi, Kenya
Ruthie L. Rosenberg, Lauren A. Harroff, Lars Shoebitz

■ **FSM Applied Research Track: Faecal Sludge Characterisation / Auditorium**

- Sludge Mapping-Understanding Sludge Generation to Maximise Usage of Existing and Upcoming STP/FSTP
Vinitha Murukesan, Niladri Chakraborti
- Method to Estimate Quantities and Qualities of Faecal Sludge
Miriam Englund, Linda Strande
- Citizen Science for Faecal Sludge Characterization in Blantyre, Malawi
Jan Freihardt, Elizabeth Tilley, Samuel Renggli, Eberhard Morgenroth
- Timely Emptying, Emergency Emptying or No Emptying at All
Antoinette Kome, Juliet Willetts, Freya Mills

● **Building Capacity and Financing Sanitation in Africa / Meeting Room 1.4**

Africa Sanitation: Building Capacity and Leadership
IHE-Delft; USAID; Centre for Affordable Water and Sanitation Technology; Eawag; MG Africa

● **Policies, Institutions and Regulation / Meeting Room 2.4.4**

Extending Regulation to Urban On-Site Sanitation: Initiatives from ESAWAS Countries (Tariffs and Surcharges Examples)
NWASCO / EASWAS; WSUP

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation / Meeting Room 1.6**

Achieving Universal Access to WASH in Schools with Innovative M&E—in Africa and Beyond
GIZ; JMP; Kampala Capital City Authority, Uganda; KCCA; Ministry of Education, Guinea; Ministry of Water, Mali; SuSanA; UNICEF; UNICEF Chad; WHO

13:00–14:00 **Lunch / Ballroom**

14:00–14:30 **Expo, Poster Session, Interactive Sessions / Ballroom**

14:00–15:30 ● **Hygiene and the SDGs: Leave No One Behind** / Meeting Room 1.4

WASH for Urban and Rural Poor

Water Research Commission (WRC); Wash for Poor; Impilo Yabantu Services; Live – With – Water; Loowatt

● **Policies, Institutions and Regulation** / Meeting Room 2.4.4

Barriers and Opportunities for Public-Private Partnership in Non-Sewered Sanitation Services

Lusaka Water and Sewerage Company (LWSC); AquaConsult

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation** / Meeting Room 1.6

Accelerating Sanitation Access through Mobile IT: Lessons from Using Data to Develop Sanitation Markets, Products and Services

Container Based Sanitation Alliance; GSM Association; Kampala Capital City Authority, Uganda; Loowatt; University of Oregon

14:30–15:30 ■ **Plenary** / Auditorium

15:30–16:00 **Break**

16:00–17:30 ■ **City Case Studies Track: Onsite Sanitation and Behaviour Change** / Meeting Room 2.6

- Innovative Citywide FSM Marketing: Experiences from Kampala, Uganda
Najib Bateganya Lukooya, Bernadette Kwebiha, Annabella Nyakaisiki, Allan Nkurunziza
- Review of Pilot FSM Demand Creation Campaign in Freetown, Sierra Leone
Shirley Browne, Amrita Mahtani
- Soak Pits Are Money Makers for Landlords in Abidjan, Cote D'Ivoire
Lassina Togola
- The Treasure Hunt: City-Wide Social Mobilisation Campaign on FSM in Faridpur, Bangladesh
Hasin Jahan, Rafiul Islam, Plabon Ganguly, Pritum Kumar Saha

■ **Industry and Exhibition Track: Biological Treatment** / Meeting Room 2.4.1

- 10,000 Septic Tanks Later: Impacts and Results of Starting Large Scale FSM
Michael McWhirter
 - Enjeux de la gestion des boues de vidange Fouban au Cameroun
J.R. Mounkapegna, P.H. Kadirou, I.M. Kengne
 - The Anaerobic Digestion Pasteurization Latrine: Operation in 3 Countries and Looking Ahead
Marc A. Deshusses, A.A. Forbis-Stokes, G. Miller, B. Hunter, L. Rocha-Melogno
 - Reinvent Novel Septic Tank Based on User Demand in Cambodia, Thailand & Vietnam
Ta Hung Anh, Dr. Atitaya Panuvatvanich
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■ **Applied Research Track: Social and Behavior Studies** / Auditorium

- Understanding Behaviour on Faecal Sludge Management: From Exploration to Evaluation
Soumya Sinha
- Describing and Improving Behaviors When Rural Latrine Pits Fill:
A Randomized Controlled Trial
James Harper P.E., Angela Bielefeldt P.E., Amy Javernick-Will, Touer Veasna, Chris Nicoletti
- Emptying and De-Sludging Practices: An Occupational Safety Needs Assessment Study
Mamta Gautam, Mamta Mantri, Asma Na, Kavita Wankhade, Rajesh Ramamoorthy, Rajiv Raman, Srinithi Sudhakar
- Bringing a Gender Lens to Sanitation Technology Development
Alison Parker, Anju Toolaram, Myles Elledge, Brian Stoner
- Evidence to Action: Unsafe FSM and Associated Exposure in Peri-Urban Kanyama, Lusaka, Zambia
G. Mwanza, N. Nan'gamba, C. Siesel, S. Raj, H. Yakubu, W. Mairinger, C.L. Moe, I. Nkhata

● **Hygiene and the SDGs: Leave No One Behind** / Meeting Room 1.4

Inclusive Urban Sanitation Beyond the Household
WaterAid; GLOPA; Luapala Water and Sewerage Company; UNICEF; WSUP

● **Policies, Institutions and Regulation** / Meeting Room 2.4.4

Sanitation Research, Development & Innovation (RDI) as a Means to Closing the Sanitation Gap in Africa
The Department of Science & Technology (DST) Republic of South Africa; Water Research Commission (WRC)

● **Building Capacity and Financing Sanitation in Africa** / Meeting Room 1.6

SDG6.2 Financing Architecture—Investment Needs, Financial Data, Funding Streams and Financing Mechanisms to Meet Africa's Sanitation Targets
UNICEF; WHO; Govt of Senegal

18:30–21:00 **Evening Reception** / Grand Africa Café & Beach

THURSDAY, 21 FEBRUARY 2019

9:00–10:00 **Plenary** / Auditorium

10:00–10:30 **Break**

10:30–12:00 ■ **City Case Studies Track: Faecal Sludge Treatment** / Meeting Room 2.6

- Operating Pro-Poor and Economically Viable Decentralised FS Treatment Facilities across Kenya
Stella Warue
- PPP Model for Developing Faecal Sludge Treatment Facilities at Scale: Andhra Pradesh, India
Dr. Y. Malini Reddy, V. Srinivas Chary
- Sustainable Value Chain Linking FSM and Agriculture in Vientiane, Lao PDR
Arianna Ardesi, Vilayvone Chanthaly, Pierre-Henri Dodane
- Operation Maintenance of Faecal Sludge Treatment Plant at Devanahalli, India: Learnings
Anantha Moorthy, Rohini Pradeep, Susmitha Sinha

■ **Industry and Exhibition Track: Private Sector, Finance, and Markets** / Meeting Room 2.4.1

- Public Water and Sewerage Utilities Collaboration with Private Sector-Pit Emptiers in Kenya
Margaret W. Maina
- Accelerating Private Operator Growth through Technical Assistance for Investment Readiness
Dieynaba Thiam-Ka, Massirè Kare, Duda Cardoso
- Cogs within the Circular Economy: Waste to Resource in Accra, Ghana
Aart Van Den Beukel
- Perspective of a Desludging Enterprise on Performance Based Contract in Maharashtra, India
Aasim Mansuri, Kasturi Joshi, Dinesh Mehta, Meera Mehta
- Implementing Scheduled FSM Services in Leh, India as a Public-Private-Partnership
Manas Rath

■ **Applied Research Track: Co-Treatment and Reuse** / Auditorium

- Findings from Co-Composting Operations at a Faecal Sludge Treatment Plant (FSTP), Devanahalli, India
Gagana Shamanna, Rohini.J, Girija.R
- Technology Innovations for Co-Treatment of Septage at Sewage Treatment Plants, Andhra Pradesh, India
Dr. Y. Malini Reddy, V. Srinivas Chary, G. Bala Subramanyam
- Challenges to the Use of Human Excreta Derived Fertilisers in Horticultural Export Farms
Berta Moya, Alison Parker, Ruben Sakrabani
- Crop and Soil Performance Influenced by Fortiferâ in Different Agroecological Zones in Ghana
Eric Gbenatey Nartey, Olufunke Cofie, Solomie Gebrezgabher
- Technical and Societal Readiness of Nutrient-Recovery Sanitation Systems in Kampala, Uganda
Jennifer R. McConville, Charles B. Niwagaba, Elisabeth Kvarnström, Monica Billger, Håkan Jönsson

● **Hygiene and the SDGs: Leave No One Behind** / Meeting Room 1.4

Promoting Basic Sanitation and Hygiene Behaviour Changes for Better Health:
Emergency and Non-Emergency Approaches

*Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ); Ministry of Health, Zambia;
Ministry of the Environment, Sanitation and Sustainable Development, Mali; Red-Cross, Burundi*

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation** / Meeting Room 2.4.4

Monitoring Hygiene Behaviours Change—Experiences from WaterAid
WaterAid; London School of Hygiene and Tropical Medicine

● **Building Capacity and Financing Sanitation in Africa** / Meeting Room 1.6

Funding Urban Sanitation in Africa: The Role of the African Urban Sanitation
Investment Fund and Other Mechanisms and Insights
African Water Facility/African Development Bank; The World Bank

12:00–13:00 **Lunch** / Ballroom

13:00–15:00 **Expo, Poster Session, Interactive Sessions, University Challenge** / Ballroom

13:00–14:30 ■ **Desludging Session** / Meeting Room 2.6

● **Hygiene and the SDGs: Leave No One Behind** / Meeting Room 1.4

Towards Sustainable Menstrual Health Management in Africa

*Lund University Centre for Sustainability Studies, Sweden;
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ); Femme International;
Water Supply and Sanitation Collaborative Council*

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation** / Meeting Room 2.4.4

CLTS and Post-ODF Monitoring: Country Progress and Local Commitments

*National Department of Sanitation and Pollution Control,
Ministry of the Environment and Sanitation, Mali; UNICEF Guinea Bissau;
Ministry of Energy Industry and Natural Resources—Guinea-Bissau;
National Association for Local Development—NADEL—Guinea-Bissau; UNICEF Mali*

● **Building Capacity and Financing Sanitation in Africa** / Meeting Room 1.6

New Business Approaches to Sanitation via the Sanitation Economy
Toilet Board Coalition; Biocycle

14:30–15:00 **Break**

15:00–16:30 ■ **City Case Studies Track: FSM and City-Wide Sanitation** / Meeting Room 2.6

- Lancement d'une filière GBV complète dans une ville Madagascar et facteurs succès
Francesca Rossi, Dirk Dirix
- Prise en main programmée de la filière GBV par la Municipalité de Yaoundé
Ndzana Arnould Philippe, Kayap Sandrine Chimène
- India's First Public Private Partnership for Integrated FSM in Leh, India
Rigzin Spalgon
- Management Approaches and Lessons Learned for Successful Faecal Sludge Management
Chengyan Zhang, Dorai Narayana, David Robbins, Michael McWhirter, Tyler Hadacek, Mathews Mullackal

■ **Industry and Exhibition Track: Thermal Processing** / Meeting Room 2.4.1

- Development of Tools for Efficient Remote Monitoring of Faecal Sludge Treatment Units
L. Schoebitz, S. Woolley, J. Hallowell, J. Wong
- Detailed Combustion Analysis of Fecal Matter to Optimize Thermal Processing Conditions and Technologies
Taylor Myres, Jeff Piascik, Stuart Woolley
- Development of a Low Tech Carbonising Process for Management by Small Enterprises
Oliver Ive
- Transitions Transformative Technologies from Laboratory to Field Testing to a Commercial Product
Jeffrey Piascik

■ **Applied Research Track: Institutional Frameworks and City-Wide Approaches** / Auditorium

- GIS Analysis for City-Wide FSM Optimisation and Decision Making: Narsapur, India
Dr. Y. Malini Reddy, V. Srinivas Chary
- Climate Sensitive FSM: New Thinking from Vulnerability, Resilience and Risk-Hazard Approaches
Freya Mills, Jeremy Kohlitz, Juliet Willetts, Antoinette Kome
- Mapping Faecal Waste and Mainstreaming Citywide Sanitation in Ganga Basin—Uttar Pradesh
Dr. Suresh Rohilla, Shantanu Padhi, Bhavik Gupta, Dr. Sumit Gautam, Rahul Mankotia, Bhitush Luthra
- Application of an Intersectionality-Informed Gender Mainstreaming Framework in FSSM in Andhra Pradesh, India
Shramana Dey, Sonali Anusree Patro, Manasi Anand, Shrimoyee Bhattacharya

● **Hygiene and the SDGs: Leave No One Behind** / Meeting Room 1.4

Investing in Sanitation, Investing in People: Laying the Foundations for Human Capital in Africa
World Bank/Africa AHEAD

● **Monitoring and Using Evidence to Improve Hygiene & Sanitation** / Meeting Room 2.4.4

Rapid Action Learning and Research for Rural Sanitation
IDS; UNICEF Ghana

● **Building Capacity and Financing Sanitation in Africa** / Meeting Room 1.6

Scaling Market Driven Sanitation Financing for All in Africa by 2030
Amref Health Africa; Take a Stake Fund; WASTE

16:30–17:00 **Break**

17:00–18:00 **Closing Remarks** / Auditorium

FRIDAY, 22 FEBRUARY 2019

9:00–17:00 **Workshops**
