

OPENING CEREMONY
Lecture Hall A (Ls A 1, 2nd Floor)
THURSDAY 23 AUGUST
9:00 – 9:30

- Ms. **Mia O'Neill**, Dr. **Pekka E. Pietilä** and Ms. **Erja Takala**
- Vice Rector of University of Tampere Prof. **Harri Melin**

Choir *Tampereen yliopiston laulajat* will present four songs

- **Announcement III** (composer Jaakko Mäntyjärvi)
- **Kiiriminna** (Finnish folk song, arranger Merja Rajala)
- **Java Jive** (composer Ben Oakland, lyricist Milton Drake)
- **Kesäpäivä Kangasalla** (composer Gabriel Linsén, lyricist Zacharias Topelius, translator P.J. Hannikainen)
- Minister for International Development
Ms. **Heidi Hautala's** video greetings

EXHIBITORS IN DRY TOILET 2012

Oy AIT Nordic
Ltd Biolan Oy
Biomass Refine Technologies BRT Ltd Oy
Ecosphere Technologies
Envirosan Sanitation Solutions
Global Dry Toilet Association of Finland
T:mi Jukka Harjula
Kim Söderman Oy
Ab Konva Center Oy
Pikku Vihreä Oy
Suomen Vesiensuojeluyhdistysten Liitto ry

PHONE NUMBERS

Press info

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Registration, payment, social programme, excursions and tourist information

Project Manager Ms. **Annikka Lampo**, Tavicon Congress Bureau, +358 40 7705 035
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Coordination of the Conference assistants / layout of posters

Ms. **Kirsikka Pynnönen**, +358 50 4126887
Project Manager Ms. **Annikka Lampo**, Tavicon Congress Bureau, +358 40 7705 035

The scientific programme, oral presentations and poster presentations

Conference Secretary Ms. **Erja Takala**, +358 45 875 3597
Chair of the Scientific Committee Dr. **Pekka E. Pietilä**, +358 40 8323 112

Accommodation of the sponsored participants

- Hotels: Conference Secretary Ms. **Erja Takala**, +358 45 875 3597
- TUT apartments: Mr. **Eero Makkonen**, +358 40 542 0788 or Dr. **Tuula Tuhkanen**, +358 40 534 5120

Exhibition

Ms. **Marja Hallila**, +358 50 301 2539

TIMETABLE OF DRY TOILET 2012 CONFERENCE

Computer room **ML 5** (D 208, ground floor) is available for participants during the conference with 14 computers, a printer and internet connection. Usernames for computers will be written in the board of the computer room. The assistants will unlock the door on demand.

Wednesday 22 August 2012	
15:00 – 18:00	<i>Tampere city sightseeing tour Departure at Holiday Inn hotel, street address: Yliopistonkatu 44</i>
18:00 – 20:00	Registration and information at Holiday Inn hotel Street address: Yliopistonkatu 44
19:00 – 21:00	<i>Get-together party at Holiday Inn hotel A cartoonist, Mr. Seppo Leinonen will be drawing funny pictures for participants.</i>

Thursday 23 August 2012

7:00 – 7:40	<i>City jog led by Mr. Petri Juuti, Departure and arrival at the main doors of University of Tampere, main building, street address: Kalevantie 4</i>			
8:00 – 17:30	Info desk; Registration and information at the University of Tampere			
9:00 – 17:30	Dry Toilet Exhibition , Great hall lobby (2 nd floor)			
	Lecture Hall A (LS A1, 2 nd floor) - headcount 318	Lecture Hall B (LS D 10 b, ground floor) - headcount 205	Lecture Hall D (LS D 11, ground floor) - headcount 140	Portrait Lobby (2 nd floor)
9:00 – 10:00	Opening and keynote speaker Mr. Kakumbi		Seminar in Finnish "Käytä kuivana" from 10:00 to 16:30 (FOR FINNISH SPEAKING DELEGATES ONLY)	
10:00 – 11:30	1. "Cultural"	2. "Technological"		
11:30 – 12:30	<i>Lunch break. Coffee in the Exhibition hall.</i>			
12:30 – 14:30	1. "Cultural"	2. "Technological"		
14:30 – 15:00				Posters
15:00 – 15:30	<i>Coffee break</i>			
15:30 – 17:30	1. "Cultural"	3. "Economy"		
19:00 – 20:30	<i>Evening reception hosted by the City of Tampere at Tampere City Hall, street address: Aleksis Kiven katu 14 – 16 C, Central Square.</i>			

Friday 24 August 2012

7:00 – 7:40	<i>City jog led by Mr. Petri Juuti, Departure and arrival at the main doors of University of Tampere, main building, street address: Kalevantie 4</i>				
8:00 – 17:30	Info desk; Registration and information at the University of Tampere				
9:00 – 17:30	Dry Toilet Exhibition , Great hall lobby (2 nd floor)				
	Lecture Hall A (LS A1, 2 nd floor) - headcount 318	Lecture Hall B (LS D 10 b, ground floor) - headcount 205	Lecture Hall C (LS A 3, 2 nd floor) - headcount 69	Lecture Hall D (LS D 11, ground floor) - headcount 140	Portrait Lobby (2 nd floor)
8:30 – 10:30		4. "Productive"	5. "Hygiene"	6. "Sustainability"	
10:30 – 11:00	<i>Coffee break</i>				
11:00 – 12:30		7. "Operation"	5. "Hygiene"	4. "Productive"	
12:30 – 13:30	<i>Lunch break</i>				
13:30 – 15:30	8. "Extreme"	4. "Productive"		7. "Operation"	
15:30 – 16:00					Posters
16:00 – 16:30	<i>Coffee break</i>				
16:30 – 17:30	9. Closing plenary and ceremony				
18:45 – 22:50	<i>Conference dinner at the Wanha Kaidesaari Restaurant on Viikinsaari Island. Gathering is at Laukontori harbour at 18:45, about 400 m south of Central Square.</i>				

ORAL PRESENTATIONS

Thursday 23 August Lecture Hall A (LS A 1) 9 - 10 OPENING CEREMONY AND KEYNOTE SPEECH <i>Coordinator Dr. Pekka E. Pietilä, Finland</i>			
9:30 – 10:00	page 18	Keynote speaker Mr. Guy Mbayo Kakumbi , Rwanda	A second Look at UNICEF-supported ECOSAN latrines construction: technology and social norms

Thursday 23 August Lecture Hall A (LS A 1) 10:00 – 11:30 1. CULTURAL, GENDER AND SOCIAL ASPECTS OF DRY TOILETS <i>- Keynote speaker Dr Kamal Kar, India</i> <i>- Session leader Dr Pekka E. Pietilä, Finland</i>			
10:00 – 10:30	page 21	Kamal Kar (keynote speaker)	Community Led Total Sanitation could pave the way for wide spread adoption of dry toilet in environmentally challenged / water scarce dry areas globally
10:30 – 10:50	page 23	Adjoyi Komlan Mawuena	Cultural and Social Aspects of Dry Toilets in Togo, West Africa: two World, two Perceptions, two Strategies
10:50 – 11:10	page 25	Claudia Wendland, Tereza Weissova, Fedde Jorritsma, Susanne Herbst	Experiences with UDDT in schools in Eastern Europe, the Caucasus and Central Asia
11:10 – 11:30	page 26	Gerryshom Munala	Socio-cultural Influences and Management that Determine Sanitation Facilities Use in the Informal Settlements

Thursday 23 August Lecture Hall B (LS D 10 b) 10:00 – 11:30 2. TECHNOLOGICAL OPTIONS AND URBAN APPLICATIONS <i>- Keynote speaker (and Session leader) Ms. Sari Huuhtanen, Finland</i> <i>Session leader Dr Eeva-Liisa Viskari, Finland</i>			
10:00 – 10:30	page 44	Sari Huuhtanen (keynote speaker)	Drivers and challenges; experiences of Dry toilet projects from rural and urban settings in Zambia
10:30 – 10:50	page 45	Abdullah Al Mamun	Dry toilet: unlocking potentials in sanitation in difficult areas of Bangladesh
10:50 – 11:10	page 46	Ai Hosokawa, Naoyuki Funamizu, Ryusei Ito, Ken Ushijima, Nowaki Hijikata, Mariam Sou, Amadou Hama Maïga (presenter Mariam Sou)	Improving Sustainable Water and Sanitation systems in Sahel Region in Africa: Case of Burkina Faso

11:10 – 11:30	page 50	Eeva-Liisa Viskari, Seija Haapamäki, Renja Yrjönen, Hilda Szabo	New learning environment for sanitation and wastewater use at Tampere University of Applied Sciences
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Thursday 23 August
Lecture Hall A (LS A 1) 12:30 – 14:30
1. CULTURAL, GENDER AND SOCIAL ASPECTS OF DRY TOILETS (continues)
- *Session leader Mr. Guy Mbayo Kakumbi, Rwanda*

12:30 – 12:50	page 28	Gertrude Matsebe, Amira Osman	Ecological sanitation in urban South Africa: socio-cultural, design and operational challenge of urine Diversion Dry (UDD) toilets and the impact on users' perceptions
12:50 – 13:10	page 29	Ken Ushijima, Naoyuki Funamizu, Mitsumasa Yokota	Value network design approach for sanitation system in developing countries - Lessons from two Japanese models -
13:10 – 13:30	page 30	Kenta Yabui, Ken Ushijima, Ryusei Ito, Naoyuki Funamizu	Design of composting toilet for practical application in Burkina Faso
13:30 – 13:50	page 31	Michelo Katambo	Culture, Social and Gender Perspectives On Dry Toilets In Zambia's Rural Areas: The Case Study of Zambia Sanitation Project
13:50 – 14:10	page 32	Md. Azahar Ali Pramanik	Socio-cultural and Gender Aspects of Ecological Dry toilets - A Success Story of SPACE in Bangladesh
14:10 – 14:30	page 33	Namaganda Rehema Bavuma (presenter Immaculate Nansubuga)	Women as drivers of ecological sanitation

Thursday 23 August
Lecture Hall B (LS D 10 b) 12:30 – 14:30
2. TECHNOLOGICAL OPTIONS AND URBAN APPLICATIONS (continues)
- *Session leader Mr. Vishwanath Srikantaiah, India*

12:30 – 12:50	page 35	Neda Abbas Nejad Lami, Ali Akbar Talebi, Minoo Hejrat	A technique for using the least amount of water for Taharat (washing after excretion) in dry toilets - The project of ecovillage21- Lisar- Caspian Sea
	page 51	CANCELLED! Eyob-Defere-Debrework	Latrine facilities in urban centers of Ethiopia and how to improve the sanitation situation for the low income households
13:10 – 13:30	page 52	Lukas Ulrich, Stefan Deegener	How (not) to design and construct UDDTs – a comprehensive guide to functionality

13:30 – 13:50	page 53	Pierre Colombot (author), (presenter Frederic Neau)	History of Dry Toilets in France
13:50 – 14:10	page 54	Rahul Ingle, Sonja Berdau, Peter Arndt, Fritz Kleemann	What does it take to convince decision makers in Omaruru, Namibia to scale up urine diversion dehydration “Otji toilets”?
14:10 – 14.30	page 55	Vladimir Moksunov	Zero-Waste Principle as a National Idea and Dry Toilets

Thursday 23 August

Lecture Hall A (LS A 1) 15:30 – 17:30

1. CULTURAL, GENDER AND SOCIAL ASPECTS OF DRY TOILETS (continues)

- *Session leader Ms. Sari Huuhtanen, Finland*

15:30 – 15:50	page 36	Ryusei Ito, Ken Ushijima, Nowaki Hijikata, Naoyuki Funamizu	Survey of sanitation conditions in Burkina Faso for design of toilet
15:50 – 16:10	page 37	Sabir Farhat	Role of Gender in Water & Sanitation in rural Pakistan
16:10 – 16:30	page 38	Surayo Saidova, Claudia Wendland	Equitable Access to Education and Development for Girls and Women - Improving women´s and girls´ hygienic situation in rural Tajikistan through implementing UDDT in schools and women development centers (WDC)
16:30 – 16:50	page 40	Yaba Laxmi Shrestha, Manima Budhathoki, Guna Raj Shrestha	Role of ethnic women in promoting ecological sanitation in a rural village of Nepal
16:50 – 17:10	page 41	Yuliya Fruman, Anna Samwel, Claudia Wendland, Stefan Deegener (Presenter Stefan Deegener)	Acceptance of UDDTs in Eastern Europe, Caucasus, and Central Asia

Thursday 23 August

Lecture Hall B (LS D 10 b) 15:30 – 17:30

3. ECONOMY, PROFITABILITY AND MARKETING

- *Session leader Prof Naoyuki Funamizu, Japan*

15:30 – 15:50	page 61	Emmanuel Mutamba	Dry Toilets – Drivers for Community Participation: Experiences drawn from Swaziland and Zambia
15:50 – 16:10	page 62	Hector Kpangon, S.H., Biaou, G.	Socio-economic factors affecting the adoption of Ecological Sanitation approach in Benin

16:10 – 16:30	page 63	Ola Stedje Hanserud, Adam O'Toole Irene DeLuna, Christopher Porter, Ola Stedje Hanserud	Temporary dry toilets at music festivals in Norway – a way to create business and awareness- Driving ecological sanitation from within: A cooperative business model for Central Appalachia, USA
16:30 – 16:50	page 64	Jan Pettersson, Johan Wikström (presenter J. Wikström)	Good shit? Household effects of ecological sanitation in Mali
16:50 – 17:10	page 105	Jonna Heikkilä, Jenni Koivisto, Anniina Kirstinä	Changing Attitudes towards Dry Sanitation in Msunduzi, Swaziland
17:10 – 17:30	page 65	Yuliya Berezhna	The problem and perspectives of the ecosanitation technologies in Ukraine: practical aspects

Friday 24 August Lecture Hall B (LS D 10 b) 8:30 – 10:30 4. PRODUCTIVE SANITATION <i>- Keynote speaker Prof Chilkunda Srinivasamurthy, India</i> <i>- Session leader Dr Harri Mattila, Finland</i>			
8:30 – 9:00	page 70	Chilkunda Srinivasamurthy (keynote speaker)	Human urine an alternative to chemical fertilizers in crop production
9:00 – 9:20	page 72	Asrat Mindachew Yemaneh, M. Bulbo, H. Fatura, C. Buzie, R. Otterpohl	Development of System for Waterless Collection of Human Excreta by Application of Lactic Acid Fermentation Process in Terra Preta Sanitation System
9:20 – 9:40	page 73	Chhabi Lal Goudel	Investing in People – “Promoting ECOLOGICAL Sanitation and ORGANIC FERTILIZERS” For Productive Sanitation (food security) and Energy Saving in Vulnerable Communities of Nepal
9:40 – 10:00	page 74	Krisanavej Songthanasak, C. Klongtroujrok, Y. Swattdipat, S. Sumphunprateep, T. Lawchod	Preliminary Study on Urine-Compost Extract as Bio-Liquid Fertiliser for Hydroponics
10:00 – 10:20	page 75	Mariana Cardoso Chispim (Ms.), Marcelo Antunes Nolasco	Human urine as fertilizer: Feasibility study of use in corn and lettuce cultivation in a university campus in Brazil

Friday 24 August Lecture Hall C (LS A 3) 8:30 – 10:30 5. HYGIENE AND HEALTH ASPECTS <i>- Session leader Dr Helvi Heinonen-Tanski, Finland</i>			
8:30 – 8:50	page 102	Helvi Heinonen-Tanski, Anna-Maria Veijalainen,	Hygiene of greywaters

		Ville Matikka	
8:50 – 9:10	page 98	Bipin Poudel, Kamal Adhikari	Health Aspects of EcoSan toilets in Nepal: Study of Impacts and Risk on Public Health
9:10 – 9:30	page 103	Hideaki Miyai, Nowaki Hijikata, Takashi Kakimoto, Naoyuki Funamizu	Investigation into determination method of anti-malarial drugs in agricultural soil assumed as human urine reuse
9:30 – 9:50	page 104	Hidenori Harada, Yuichi Kimoto, Shigeo Fujii	Experimental Analysis of Microbial Inactivation through Feces Treatment using Ash
9:50 – 10:10	page 107	Miguel Angel López Zavala, Daniela Muñoz, Edmundo Ramos, Carolina Lara	Biodegradation of infectious biological hazardous wastes from hospitals by using a thermal composting process
10:10 – 10:30	page 99	Gina S Itchon, Ana Liza U Miso, Robert Gensch	The Effectivity of the Terra Preta Sanitation (TPS) Process in the Elimination of Parasite Eggs in Fecal Matter: A Field Trial of Terra Preta Sanitation in Mindanao, Philippines

Friday 24 August

Lecture Hall D (LS D 11) 8:30 – 10:30

6. SUSTAINABILITY AND PROMOTING OF DRY TOILETS

- Session leader Dr Claudia Wendland, Germany

8:30 – 8:50	page 127	Mia O'Neill	Bringing the ecological back to sanitation – the need for changes in attitudes, practices and policies
8:50 – 9:10	page 125	Amani George Rweyendela, Antero Luonsi, Eeva-Liisa Viskari (presenter Eeva-Liisa Viskari)	Dry toilets can offer a sustainable wastewater treatment system in rural areas
9:10 – 9:30	page 126	Anarkul (Anara) Choitonbaeva, Claudia Wendland, Fedde Jorritsma	How to make sustainable sanitation really sustainable - Up-scaling of ecosan (UDDT) in Kyrgyzstan, Central Asia
9:30 – 9:50	page 128	Nelson Ekane	Contradictions Between Sanitation Policy and Practice: A Case Study in the Burera District in Rwanda
9:50 – 10:10	page 129	Rauf Sabitov (Kabievich)	The experience in the implementation of ecological sanitation in Kazakhstan

<p style="text-align: center;">Friday 24 August Lecture Hall D (LS D 11) 11 – 12:30 4. PRODUCTIVE SANITATION (continues) <i>- Session leader Ms. Sanna-Leena Rautanen, Finland</i></p>			
11:00 – 11:20	page 77	Moustapha Sene, Nowaki Hijikata, Ken Ushijima, Naoyuki Funamizu	Effect of human urine application volume in Komatsuna growth
11:20 – 11:50	page 78	Nadejda Andreev (Ms.), María García Álvarez, Claudia Wendland, Friedemann Klimek, Mariska Ronteltap, Piet Lens	A concept for a sustainable sanitation chain based on the semi centralised production of Terra Preta for Moldova
11:50 – 12:10	page 79	Natsuru Yamauchi, Nowaki Hijikata, Ken Ushijima, Naoyuki Funamizu	Effect on compost maturity by type of matrix and lime treatment after removal from composting toilet
12:10 – 12:30	page 80	Nowaki Hijikata, Ken Ushijima, Ryusei Ito, Boukary Sawadogo, Naoyuki Funamizu	Design of vegetable garden for income estimation toward to agro-sanitation business model, a case study in Burkina Faso

<p style="text-align: center;">Friday 24 August Lecture Hall C (LS A 3) 11:00 - 12:30 5. HYGIENE AND HEALTH ASPECTS (continues) <i>- Session leader Dr Gina S. Itchon, Philippines</i></p>			
11:00 – 11:20	page 108	Pedro O. Orumwense, Eila Torvinen, Helvi Heinonen-Tanski	The Survival of Mycobacteria in Pure Human Urine
11:20 – 11:40	page 109	Rui Tezuka, Nowaki Hijikata, Shinobu Kazama, Seyram K. Sossou, Naoyuki Funamizu	Inactivation mechanism of pathogenic bacteria using lime and ash in composting toilet
11:40 – 12:00	page 110	Seyram K. Sossou, Rui Tezuka, Nowaki Hijikata, Mariam Sou, Naoyuki Funamizu	Inactivation mechanisms of pathogenic bacteria in several matrixes during composting process in composting toilet
12:00 – 12:20	page 111	Tatjana Regerand, Yu Protasov, A. Kiuru, S. Pakula, R. Kiukas	Experience of Biotoilet Installations in the Frame of the International Finnish Russian Project

<p style="text-align: center;">Friday 24 August Lecture Hall B (LS D 10 b) 11:00 – 12:30 7. OPERATION AND MAINTENANCE OF DRY TOILETS <i>- Keynote speaker and Session leader Prof Tuula Tuhkanen, Finland</i></p>			
11:00 – 11:30	page 96	Tuula Tuhkanen (keynote speaker)	Odor prevention and control in sanitation

11:30 – 11:50	page 117	Pui Ki Tsang, Hilda Marta Szabo, Eeva-Liisa Viskari (presenter Hilda Szabo)	Gas release and ventilation in a dry toilet – comparison between different models and user rates
11:50 – 12:10	page 100	Marja Palmroth, Adela Ramos Garcia, Vesa Kolha, Tuula Tuhkanen, Nora Fernandez, Dulce Muñoz, Ikechuku Nwagwe, Javier Porto, Loïc Perrier, Florie Crosnier, Christian Richter	Removal of odours associated with dry sanitation by biofiltration
12:10 – 12:30	page 120	Kirsikka Pynnönen, Tuula Tuhkanen, Wyckliffe Osumba, Moses Wakala, Christian Rieck	Two Years after Donor Funding Ended - Motivating Factors for Schools to Keep their Urine-Diverting Dry Toilets (UDDTs) Clean and Well Maintained

Friday 24 August Lecture Hall B (LS D 10 b) 13:30 – 15:30 4. PRODUCTIVE SANITATION (continues) <i>- Session leader Prof Naoyuki Funamizu, Japan</i>			
13:30 – 13:50	page 83	Ralf Otterpohl, Asrat Mindachew, Joachim Behrendt (presenter Joachim Behrendt)	Integration of Sanitation, Bio-Waste-Management, local Energy production and Agriculture
13:50 – 14:10	page 85	Sanna Pynnönen, Tuula Tuhkanen	Environmental Impact of Micropollutants Present in Urine
14.10 – 14.30	---	Erpo Heikkilä CANCELLED!	Limonade – the practical solution
	page 86	Tabbie Kayange	Experience of ecological sanitation in Malawi
14:30 – 14:50	page 87	Taina Laiho, K. Lehto and Olav Eklund	Mineral ammonium ion absorber as a fertilizer
14:50 – 15:10	page 88	Vishwanath Srikantaiah, Shubha Ramachandran, Karan Singh	SANITATION WITHOUT PIPES The Honeysucker approach – a case study from Bangalore

Friday 24 August Lecture Hall D (LS D 11) 13:30 – 15:30 7. OPERATION AND MAINTENANCE OF DRY TOILETS (continues) <i>- Session leader Dr Antero Luonsi, Finland</i>			
13:30 – 13:50	page 97	Awadhesh N. Singh	IEC and technology option key to sustainable rural sanitation promotion
13:50 – 14:10	page 84	Rostom Gamizonia, Anna Samwel, Claudia Wendland	Providing all-round-service for sustainable sanitation in rural and peri-urban areas of Georgia– including marketing, agriculture and energy
14:10 – 14:30	page 118	James Messo Raude, C. W. Maina, B. M. Mutua	Performance evaluation of the ecological sanitation systems in Nakuru
14:30 – 14:50	page 119	Kinfe Kassa Ayano, Beshah Mogesse Behailu	Experiences of Urine diverting dry toilets (UDDT) in Arba Minch, Ethiopia
14:50 – 15:10	page 121	Rajesh Upadhaya	Operation and maintenance

		(Adhikari), Mahidul Islam Brack Bangladesh, Bhushan Tuladhar, Suman kumar Shakya, Kasikant Thakur	challenges to promote dry toilet in Nepal: A case of ENPHO EcoSan programme
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Friday 24 August
Lecture Hall A (LS A 1) 13:30 – 15:30
8. SANITATION IN EXTREME CONDITIONS
- Session leader Ms. Sanna-Leena Rautanen, Finland

13:30 – 13:50	page 134	Andrew Larsen, Andreas Koestler	Urban Sanitation Solutions for High-Use, Flooded and Difficult to Serve Areas
13:50 – 14:10	page 135	Guneshwar Prasad Mahato, Rahul Ingle	Climate change adaptation at local level by implementing urine diverting dry toilets: experiences from western Nepal
14:10 – 14:30	page 136	Joseph Jenkins	Compost-based Sanitation in Post-Earthquake Haiti in Urban and Rural Locations
14:30 – 14:50	page 137	Julie Patinet	Dry Toilet in urban crisis : Case study: Kabul
14:50 – 15:10	page 138	Nam Raj Khatri	Sustainability and Climate Change aspects of Ecosan Toilet: Nepal prospective
15:10 – 15:30	page 47	Camilla Wirseen, A. Wilhelmson	A toilet for the Most Vulnerable: The Peepoo

Friday 24 August
Lecture Hall A (LS A 1) 16:30 – 17:30
9. CLOSING PLENARY, POSTER AWARD AND FEEDBACK PRIZE
- Session leaders Dr Pekka E. Pietilä and Ms. Mia O'Neill, Finland

POSTER PRESENTATIONS
(16 will be presented)

Thursday 23 August
Portrait lobby (2nd floor) 14:30 – 15:00
Session leader Dr Pekka E. Pietilä, Finland

1. CULTURAL, GENDER AND SOCIAL ASPECTS OF DRY TOILETS			
1	page 42	Sangita Khadka, Amrit Kumar Rai	Women in Sanitation Campaign in Western Nepal! Making it happen!

2. TECHNOLOGICAL OPTIONS AND URBAN APPLICATIONS			
1	page 57	Marja Palmroth ¹ , Adela Ramos Garcia ¹ , Vesa Kolha ¹ , Tuula Tuhkanen ¹ , Nora Fernandez ² , Miguel Herrero ² , Dulce Muñoz ² , Ikechuku Nwagwe ² , Ruth Nuñez ² , Javier Porto ² Loïc Perrier ³ , Pierre Colombat ³ , Florie Crosnier ³ , Christian Richter ⁴ , Götz Hendrik Winter ⁵ , Carlos Ramirez ⁶ , Pedro Gomez ⁶	Development of a New Biocide Dry Toilet with Hygienic facilities
2	page 58	Paul Sewor, Elina Järvelä (not be presented)	Dry toilet technology implementation in Ho Municipality of Ghana: A solution to pit latrine problems
3	page 59	Lehtoranta, S. & Vilpas, Riikka (not be presented)	Applying life-cycle assessment to on-site wastewater treatment plants in rural areas of Finland
4	---	Mona Mijthab, Elisabeth von Muench, Ashley Wheaton, Alexander Jachnow (not be presented)	Sanitation technology meets esthetic design: will the urban poor invest in a mobile dry toilet inspired by handicraft shapes from Bangladesh?
3. ECONOMY, PROFITABILITY AND MARKETING			
1	page 67	Andrew M. Foote, Emily Woods	Demonstrating solar sanitation as a means for affordable fecal waste treatment from dry toilets
2	page 68	Sridhar K. C. Mynepalli ¹ , Elizabeth Oloruntoba ² , Achenyo Idachaba ³ , Bolanle Wahab ⁴ and Glory Richard ¹	Faecal Sludge Disposal in Coastal Yenagoa (Niger Delta region, Nigeria): A Case for Business Opportunities and Promotion of Dry Toilets
3	---	Bharat Sapkota and Sunita Sharma (presenter Sunita Sharma)	Enhancement of Rural Livelihood through the Renewable Energy and Improved Sanitation: A case Study of Chhatara Village Development Committee, Bajura, Nepal
6. SUSTAINABILITY AND PROMOTING OF DRY TOILETS			
1	page 130	Babatope Babalobi	Media for WASH The Mass Media as a tool to solve the WASH challenges of the Urban and Rural poor
2	page 131	Maarit Särkilähti and Tuula Tuhkanen (presenter Tuula Tuhkanen)	Teaching Safe and Sustainable Sanitation in an e-Learning environment: Factors affecting students' satisfaction
7. OPERATION AND MAINTENANCE OF DRY TOILETS			
1	page 123	Obed C. Kawanga, Tsoka Phiri.K	GIS Applications to Operational and Maintenance of Dry Toilets; Case of Madimba-Zambia

Friday 24 August
Portrait lobby (2nd floor) 15:30 – 16:00
Session leader Mrs. Mia O'Neill, Finland

4. PRODUCTIVE SANITATION

1	page 90	Viskari, Eeva-Liisa, Haapamäki, Seija, Mburu Catherine, Zambeze-Kallio Claudia (presenter Seija Haapamäki?)	Urine as fertilizer for lettuce in greenhouse conditions – growth, yield and the role of estrogens in urine
2	page 91	Ilkka Pulkkinen, Aino-Maija Kyykoski, Kati Hinkkanen, Mogues Worku, Getnet Hunegnaw (presenter Aino-Maija Kyykoski or video presentation)	Bahir Dar SAWE: Experiences on implementation of sanitation, waste and energy project in Bahir Dar, Ethiopia
3	---	Mark Buehrer (not be presented)	Living Building Challenge for Food and Water: Closed-Loop Water & Nutrient Systems
4	page 92	Seth M. K. Akah, Cephas Kwaku Bosrotsi, Elina Järvelä (not be presented)	The fertilizer substitution potential of human urine from dry toilet systems for vegetable production in the Ho Municipality of semi-arid Ghana
5	page 93	Surendra K Pradhan, Ram Chandra Piya, Helvi Heinonen-Tanski (presenter Helvi Heinonen-Tanski)	Eco-sanitation for agriculture - an experimental demonstration program in Nepal
6	page 94	Torsten Bettendorf, Joachim Behrendt, Ralf Otterpohl (presenter Joachim Behrendt)	Treatment and utilization of source separated urine and fecal matter in urban areas

5. HYGIENE AND HEALTH ASPECTS

1	page115	Narayan Singh Khawas	Drivers of Sustainable Sanitation in Rural Syangja, Nepal
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8. SANITATION IN EXTREME CONDITIONS

1	page 140	Kristian Hansson (presenter Camilla Wirseen)	Peepoople Emergency Response
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