

1st International Terra Preta Sanitation Conference in Hamburg 28th – 31st August 2013

Programme

Program will take place at:

TU Hamburg Harburg, Denickestrasse 15, 21073 Hamburg, Building: K, Room: 0506

Wednesday, 28th August 2013

17.00 – 19.00 Informal get together and preliminary registration (optional)

Thursday, 29th August 2013

8:00 Registration

9:00 Opening speech by Dr. Haiko Pieplow, German Ministry of
Environment, Nature Protection and Nuclear Safety
Conference keynote by Prof. Ralf Otterpohl, TUHH

10:00 – 10:30 Coffee break

10:30 **Session 1: TP soils, soil fertility, organic farming**

Chairs: Håkan Jönsson and Ina Körner

- **Key note from Bruno Glaser (Germany):** Potential and constraints of Terra Preta products for soil amelioration and climate change mitigation
- **T. Theuretzbacher (Austria):** Investigation on Terra Preta like products on the German-Austrian market
- **N. Andreev (Moldova):** The effect of Terra Preta like substrate on germination and shoot growth of radish and parsley
- **H. Factura (Philippines):** Addressing Poor Sanitation and Generating Added Values through Terra Preta Sanitation
- **Questions & Answers**

11.45 Poster Session 1 (poster presenters have 2 min. to present their poster on stage)

12:45 – 14:00 Lunch break

14:00 **Session 2: TPS Applications, Quality of products, hygienic parameter, legislation, certification**

Chairs: Jutta Kerpen and Thorsten Schütze

- **Keynote presentation Prof. Srikanth Mutnuri (India):** Terra Preta as an Alternative for the Management of Sludge from Waste Water Treatment Plant
- **S. Böttger (Germany):** Terra Preta – production from sewage sludges of decentralised wastewater systems
- **D. Meier-Kohlstock (Germany):** The integration of Terra Preta Sanitation in European nutrient cycles – Options for alternative policies and economies
- **B. Pelivanoski (Germany):** Terra Pellet - an organic fertilizer inspired by Terra Preta
- **Questions & Answers**

15:15 - 15:45 Coffee break

15:45 **Session 3: Terra Preta Sanitation: toilet systems and designs / Logistic and operation / practical examples**

Chairs: Zifu Li and Mariska Ronteltap

- **T. Schütze (South Korea):** A key component in sustainable urban resource management systems
- **R. Wagner (Germany):** New challenges of resource management in the Botanic Garden Berlin by producing and applying biochar substrates
- **R. Kuipers (Netherlands):** A socio-economic assessment of urine separation, with a reflection on the possibilities for Terra Preta Sanitation, for the recycling of nutrients to rural agriculture in the Philippines
- **M. Bulbo (Ethiopia):** TP application in Ethiopia
- **R. Wolf (Germany):** Application of Fermented Urine for build up of Terra Preta Humus in a Permaculture Park and Social Impact on the Community Involved
- **Questions & Answers**

16:45 Résumé of day of day by the chairs and discussion

19:00 Reception at Hamburg-Harburg town hall /joint walk from TUHH (starting at 18.30)

Friday, 30th August 2013

9.00 – 10.30 Parallel side event of Sustainable Sanitation Alliance – open meeting of working group 5 “Food security and productive sanitation systems” in Building N, Room N 0008

9:00 **Session 4: Carbon composting of biowaste and excreta/Climate farming / wood gas technology for energy and char coal production / Pyrolysis vs. hydrothermal carbonization**

Chairs: Kerstin Kuchta and Lucas Dengel

- **Keynote presentation Prof. Zifu Li (China):** Energy balance analysis on the pyrolysis process of animal manure
- **E. Someus (Sweden):** Reducing mineral fertilisers and chemicals use in agriculture by recycling treated organic waste as compost and bio-char products
- **B. von Herzen (USA):** Biochar conversion of high- moisture human solid waste at community scale
- **T. Voss (Germany):** Wood gasification in parallel flow fixed gasifiers for combined energy and charcoal production - experiences from six years of operation
- **C. vom Eyser (Germany):** Product quality of hydrochar from sewage sludge in terms of micropollutants
- **Questions & Answers**

10:30 – 11:00 Coffee break

11:00 **Session 5: Microbiology, sanitization and lactic acid fermentation**

Chair: Srikanth Mutnuri

- **Keynote presentation Dr. Gina Itchon (Philippines):** The effectivity of the Terra Preta Sanitation (TPS) Process in the Elimination of Parasite Eggs in Fecal Matter: A Field Trial of TPS in Mindanao, Philippines
- **F. Scheinemann (Germany):** Hygienisation and nutrient conservation of sewage sludge or cattle manure by fermentation
- **A. Yemaneh (Germany/Ethiopia):** Investigation of Low-Cost Sugar Supplement for Lactic Acid Fermentation of Human Excreta in Terra Preta Sanitation System
- **M. Stöckl:** Assessment of hygienisation of faecal matter during terra preta inspired vermicomposting by qualitative identification of salmonellae
- **A. Walter (Austria):** Microbial communities in charcoal and microbe amended composts
- **Questions & Answers**

Poster Session 2 (poster representers share their posters in the exhibition space)

12.45 – 14.00 Lunch break

14:00 **Session 6: Lactic acid fermentation**

Chair: Srikanth Mutnuri

- **Keynote presentation A. Febriana (Indonesia):** Faeces Treatment by lactic acid fermentation process based on Terra Preta Sanitation System concept
- **A. Yemaneh (Germany/ Ethiopia):** Investigation of low-cost sugar supplement for lactic acid fermentation of human excreta in TP sanitation system
- **Questions & Answers**

14.45 – 15.15 Coffee Break

15.15 Final plenary discussion and conclusion with selected chairs

16.45 Closing ceremony

19:00 Conference Dinner at restaurant “Cafe Sternchance”

Saturday, 31st August 2013

10:00 – 15:00 Excursion – Start at TU HH

- Eco-Settlement Allermöhe with composting toilets and greywater treatment in constructed wetland.
- Pilot of TP Sanitation in a public toilet in Hamburg city. center
- Permaculture garden.