

CURRICULUM VITAE

LINDA STRANDE

CURRENT RESIDENCE

Linda Strande
Zürich, Switzerland
C Residence Permit

LANGUAGES

English – native language
High German – B2 (currently enrolled C1)
Swiss German – B1 (Züritütsch)
French – A2
Spanish – A1

EDUCATION

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| 2009 | Ph.D. Civil and Environmental Engineering
University of Washington , Seattle, Washington, USA
Dissertation: Estrogen Transformations in Wastewater Treatment: Ammonia Oxidizing Bacteria, Nitrification, and Heterotrophic Bacteria
Adviser: H. David Stensel |
| 2005 | Professional Registration : Engineer in Training, Washington State, USA |
| 2004 | M.S.E. Civil and Environmental Engineering
University of Washington , Adviser: H. David Stensel |
| 2004 | M.S., University of Washington, Soils Science
University of Washington , Seattle, Washington, USA
Thesis: The Effect of Soil Amendments on the Symbiotic Nitrogen-fixing Relationship of <i>Alnus rubra</i> (Red alder) and <i>Frankia</i>
Adviser: Sally L. Brown and Chuck L. Henry |
| 1994 | B.A., University of Washington, Mathematics
University of Washington , Seattle, Washington, USA |

RESEARCH INTERESTS

The overarching goal of my research is to increase scientific knowledge for the application of sustainable urban excreta and wastewater management technologies. As an engineering scientist focused in low-income countries, I always consider how fundamental research can translate into real-life implementations. To achieve this, I strive to employ a system-based approach to all areas of treatment including business models, value-chain management, and logistics, by developing knowledge of system components and how they integrate into complete systems. My philosophy throughout my research career has been to develop engineering approaches that are relevant for global applications. My background encompassing interdisciplinary degrees in engineering, science and mathematics, and wide-ranging international experiences, has provided me with a global perspective, and equipped me to research and apply environmental engineering fundamentals in complex, interdisciplinary situations.

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RESEARCH POSITIONS

July 2010 – Present	Program Officer / Senior Research Scientist (Tenured since June 2015) Acting Department Head Sandec (February 2020 to December 2020) Eawag - Swiss Federal Institute of Aquatic Science and Technology Sandec – Sanitation, Water and Solid Waste for Development Dübendorf, Switzerland
Oct 2009 – Feb 2010	University of KwaZulu-Natal, Durban, South Africa, Research Fellow in Pollution Research Group
Dec 2004 – Sept 2009	University of Washington, Seattle, Washington, USA, Research Assistant, Department of Civil and Environmental Engineering
May 2009	University of KwaZulu-Natal, Durban, South Africa, Research Fellow, Pollution Research Group
May 2006 – Aug 2006	Kyoto University, Kyoto, Japan, Visiting Researcher, Graduate School of Global Environmental Studies
April 2006	Jiuzhaigou National Park and Sichuan University, Sichuan, China, Visiting Researcher
Jan 2002 – June 2004	University of Washington, Seattle, Washington, USA, Research Assistant and Manager of the Northwest Biosolids Management Association Library, College of Forest Resources
June 2000 – Jan 2002	Washington Toxics Coalition, Seattle, Washington, USA, Information Specialist

TEACHING EXPERIENCE (current)

- IHE Delft. Lecturer and curriculum development for faecal sludge management module in Master of Science programme in onsite sanitation.
- EPFL. Introduction to Faecal Sludge Management MOOC. Launch May 2017.
<https://www.coursera.org/learn/faecalsludge>. >1200 course completers.
- Eawag. Curriculum development for faecal sludge management workshop in collaboration with CAWST. Delivered in Dar es Salaam, Tanzania; Durban, South Africa; Washington DC, USA; Blantyre, Malawi; Hanoi, Vietnam.
- EPFL. Lecturer, Sanitary engineering in developing countries EPFL course Env 402 in SIE department ENAC faculty 2010 to present.
- ETH. Environmental Sanitation Planning and Infrastructure in Developing Countries ETH course 102-0838-00L in D-BAUG department 2010 to present.
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AWARDS AND RECOGNITIONS

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| 2007 – 2009 | United States Environmental Protection Agency (USEPA) Science to Achieve |
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LINDA STRANDE

	Results (STAR) Fellowship
2007	Water Environment Federation Canham Graduate Scholarship
2007	University of Washington Huckabay Teaching Fellowship
2007	Society of Women Engineers Outstanding Graduate Award
2005 – 2009	King County Research Fellowship
2004 – 2006	US National Science Foundation (NSF) Integrative Graduate Education and Research Traineeship (IGERT) Fellowship
2004	First place national engineering design competition, Water Environment Federation (WEF)

RESEARCH FUNDING

Current Funding:

- January 2020 – June 2021. Research into Action: Methods and Tools to Determine Quantities and Qualities (Q&Q) of Faecal Sludge for Sustainable Solutions, 171,239 CHF, PI: Linda Strande, Eawag Discretionary Funding.
- January 2020 – December 2022. SFD Phase 3, 30,000 USD / 200,000 USD, PI: Barbara Evans, LEEDS University, Bill & Melinda Gates Foundation.
- September 2019 – December 2019, July 2019. Faecal sludge quantities & qualities (Q&Q) in Lusaka, Zambia, 98,336 Euro + 8,000 Euro, PI: Linda Strande, GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit).
- December 2017 – December 2020. Settling and Dewatering of Faecal Sludge: Building Fundamental Models for Improved Global Sanitation, 175,000 CHF, BJ Ward Student Fellowship, Linda Strande Supervisor, Eberhard Morgenroth PhD Advisor, Engineering for Development (E4D) proposal for four year PhD project.
- Jan 2018 – Dec 2021. Water, Behavior Change and Environmental Sanitation (WABES): Sustainable solutions through research, knowledge and professionalism, 235,000 CHF / 2,600,000 CHF Total, PI: Christoph Lüthi, Linda Strande project lead on faecal sludge management, Swiss Development Cooperation (SDC).
- Oct 2017 – September 2021. Solid-Liquid Separation of Faecal Sludge: Understanding Governing Mechanisms for Improved Global Sanitation, 350,000 CHF, PI: Linda Strande, Swiss National Science Foundation (SNF).
- June 2016 – December 2021. Water Hub in NEST: Science meets industry in the NEST building to develop and demonstrate on-site treatment technologies for water and sanitation innovation, PI: Eberhard Morgenroth, Linda Strande project lead on faecal sludge management, 250,000 CHF / 1,415,760 CHF total, Eawag Discretionary Funding

Previous Funding (since 2010):

- October 2018 – January 2019. Evaluation and Selection of FSTPs in South Asia and Sub Saharan Africa for Long-term Monitoring, 205,000 USD PI Linda Strande, Bill & Melinda Gates Foundation.
2017. Expert consulting, Port Harcourt World Bank Project 5,600 CHF; IHE Delft Development of Master's Curriculum 25,000 USD
- January 2016 – December 2016. Optimization of pathogen inactivation during anaerobic digestion treating faecal sludge in low-income countries, 10,000 CHF PI: Linda Strande, EPFL Seed Money

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- June 2016 – May 2017. Faculty for the Future Post-doctoral Fellowship, 40,000 USD PI: Mi Nguyen, Linda Strande supervisor, Schlumberger Foundation
- November 2016 – March 2018. SFD Phase 2, 63,605 CHF Linda Strande project lead on Sandec component, Bill & Melinda Gates Foundation
- June 2015 – October 2016. RRR Phase 2, 20,000 Euro, Heiko Gebauer lead for Eawag, Linda Strande for Sandec, Swiss Development Cooperation (SDC)
- Jan 2015 – Dec 2017. Water and Environmental Sanitation Services for the Poor (WESSP), 270,000 CHF / 1,300,000 CHF Total, PI: Chris Zurbrügg, Linda Strande project lead on faecal sludge management, Swiss Development Cooperation (SDC)
- Nov 2014 – Oct 2015. Shit Flow Diagram baseline study, 185,000 USD / 1,000,000 USD Total, PI: Arne Panesar, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Linda Strande lead on Sandec component, Bill & Melinda Gates Foundation (BMGF)
- Sept 2014 – Aug 2016. Sludge to Energy Enterprises in Kampala (SEEK), 450,000 CHF - 300,000 CHF Symphasis, 150,000 CHF REPIC, PI Linda Strande, cofunded by Symphasis Foundation and REPIC (an interdepartmental platform of the Federal Offices SECO, SDC and SFOE)
- April 2014 – June 2014. FaME and U-ACT Video, 15,000 Euro, PI Linda Strande, European Union Water Initiative (SPLASH)
- Jan 2013 – Dec 2015. Partnership for Urban Resource Recovery (PURR), 440,000 CHF, PI: Linda Strande, Swiss State Secretariat for Economic Affairs (SECO)
- Jan 2013 – June 2013. Economic Evaluation of Faecal Sludge Disposal Routes project (Contract 22384), 10,000 USD / 99,430 USD Total, PI: UKZN, Linda Strande project lead for Dakar data set, Bill & Melinda Gates Foundation (BMGF)
- Jan 2012 – Dec 2014. Resource Recovery and Reuse (triple R), 470,000 CHF / 3,000,000 CHF Total, Co-PI: International Water Management Institute (IWMI) and World Health Organization (WHO), Linda Strande and Chris Zurbrugg project co-lead on Sandec component, Swiss Development Cooperation (SDC)
- Jan 2012 – Dec 2014. Water and Sanitation (WASSA), 270,000 CHF / 930,000 CHF Total, PI: Chris Zurbrügg, Linda Strande project lead on faecal sludge management, Swiss Development Cooperation (SDC)
- Aug 2011 – Sept 2011. Drinking Water and Sanitation for Refugee Camps, 40,000 CHF Total, PI: Chris Zurbrugg, Linda Strande lead MEWS component, United Nations Refugee Agency (UNHCR)
- April 2011 – March 2014. Faecal Management Enterprises (FaME), 400,000 Euros, PI: Linda Strande, European Union Water Initiative (SPLASH).
- March 2011 – Sept 2012. De Dechet à Resource (DAR) Senegal, 30,000 Euros, PI: Mbaye Mbequere, Linda Strande project partner, Volkswagen Foundation
- Oct 2010 – Sept 2014. Nutrient Harvesting in South Africa (VUNA), 80,000 USD / 3,000,000 USD Total, Kai Udert and Teddy Gouden co-PI, Linda Strande project lead on hygienic and ecotoxicological aspects, Bill and Melinda Gates Foundation (BMGF)

MENTORING AND SERVICE

SUPERVISION AND MENTORING AT EAWAG

Supervision of Research Project Officers Mbaye Mbèguèrè, Stefan Diener, Magalie Bassan, Lars Schoebitz, Moritz Gold, Barbara Jeanne Ward, Nienke Andriessen, Miriam Englund, Marius Klinger

CURRICULUM VITAE

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Cosupervision of PhD students El Hadji Mamadou Sonko, Alsane Seck, Amadou Gueye, Dakar Senegal, Ebenezer Soh Kegne, Yaounde, Cameroon

Supervision of PhD students BJ Ward, Stanley Sam (ETH Switzerland, Eberhard Morgenroth Academic Advisor).

Supervision of Post-doctoral researchers Juliette Ndounla, el Hadji Mamadou Sonko (2015), Mi Nguyen (2016)

Supervision of Swiss Civil Servants and University interns Hanspeter Zöllig, Burkina Faso (2011), Josef Reiser, Senegal (2011), Benedict Borer, Switzerland (2012), Fabian Bischoff, Uganda, Guillaume Clair, Senegal, Amede Ferre, Vietnam, Nienke Andriessen, Uganda (2014), Aoife Byrne, Uganda, Katerina Brandes, Tanzania, Arief Gunawan, Bangladesh, Linus Brunner, Tanzania, Miriam Englund, Uganda, Michael Cunningham, Switzerland, Jean-David Therrien, Uganda, Seydou Guinko (Universite Joseph Fourier), Senegal (2015), Linus Brunner, Tanzania, Ruth Arnheiter, Uganda, Fritzi Ziebell, Uganda, Hildemar Mendez, Tanzania (2016), Michael Reinisch, Switzerland (2017) Leila Schneider, Tanzania (2017), Kim Whett, Mirco Egloff, Switzerland (2017), Tom Howard, Switzerland (2018)

Cosupervision and / or examination committee member for Masters' Degrees Manfred Schoger EPFL (2011), Hamath Dione, University of Dakar (2012), Cristina Fritzsche and Birge Ozel ETH (2013), Pauline Dayer ETH (2014), Amede Ferre, Adeline Mertenat, Karin Gallandat EPFL (2014), Markus Wolf, Fabian Bischoff, Aalborg University, Léa Randin, Livia Jost EPFL, (2015), Mira Bleuler, Zurich University of Applied Sciences (2016), Charles Simon, Leah Marwa, Nuhu Moto, University of Dar es Salaam (2017), Miriam Esanju, University of Dar es Salaam, Ammandip Duggal, ETH (2018), Kapanda Kapanda, University of Zambia (2020)..

Mentoring of EPP fellows Teddy Nakato (2012), El hadji Mamadou Sonko (2012), Ebenezer Soh Kengne (2013), Amadou Gueye (2013), Lungi Zuma (2013), Alsane Seck (2014), Amadou Gueye (2015) Pavan Indireddy (2018), Purna Prasad (2020).

EAWAG SERVICE (current)

Eawag laboratory representative for Sandec (in addition to laboratory activities in Sandec, includes participation in engineering laboratory, Aquatikum, Flux, and WaterHub committees and meetings)

Chair of the Equal Opportunity Committee (EOC)

Chair of the Eawag Partnership Program (EPP)

Member of the Future Taskforce

Acting Sandec Department Head, March – December 2020

Eawag Symposium Organizing committee

SCIENTIFIC COMMITTEES (current)

Member of committee: FSMA (Faecal Sludge Alliance)

Member of conference committee: FSM6, FSM5, FSM4 (Faecal Sludge Management)

Member of IWA Specialist group and conference committee: NSS (Non-Sewered Sanitation)

Co-chair of conference committee: FSM3 (Faecal Sludge Management 3) conference, Hanoi Vietnam, January 2015.

Advisory member: SFD Promotion Initiative

REVIEWER

Journals

Chemosphere, Environmental Science & Technology, Environmental Technology, Fuel, Heliyon, Journal of Environmental Engineering and Science, Journal of Environmental Management, Journal of Environmental

CURRICULUM VITAE

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Quality, Journal of Water, Sanitation and Hygiene for Development, Proceedings of the Institute of Civil Engineers - Water Management, Restoration Ecology, Scientia Agricola, Tropical Medicine, Water Environment Research, Water Research, Water SA, Water Science and Technology, Waterlines

Book chapters

Faecal Sludge and Septage Treatment: a guide for low and middle income countries, Tayler, K. 2018, Source Separation and Decentralization for Wastewater Management, Sustainable Sanitation in Cities - A framework for action, Compendium of Sanitation Systems and Technologies 2nd Edition

Research proposals

CORE 2017 Call Luxembourg National Research Fund, Knowledge for Tomorrow – Cooperative Research Projects in Sub-Saharan Africa for Volkswagen Foundation, Capacity Building Initiative Programme Grant for RS-DFID, FSM research proposals for IRC International Water and Sanitation Centre

Conferences

Conference Abstracts. FSM3, FSM4, FSM5, FSM6, NSS

PROFESSIONAL MEMBERSHIP

Aguasan Community of Practice, Switzerland

WSSCC Water Supply & Sanitation Collaborative Council

International Water Association

INTERNATIONAL EXPERIENCE

RESEARCH COLLABORATIONS *(since 2010, and external to ETH Domain)*

Asian Institute of Technology (AIT, Thailand)

BioBurn AG (Switzerland)

Bremen Overseas Research and Development Association (BORDA, Tanzania and Global)

Centre for Dewats Dissemination Society (CDD Society, Bangalore, India)

Chiekh Anta Diop University (Dakar, Senegal)

Center for Energy, and Energy Conservation (CREEC, Kampala, Uganda)

Centre for Science and Environment (CSE, India)

Delvic Sanitation Initiatives (Delvic, Senegal)

Environmental and Public Health Organization (ENPHO, Nepal)

eThekwini Municipality (Durban, South Africa)

GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit, Germany)

Hanoi University of Civil Engineering (HUCE, Vietnam)

hydrophil IC (Austria)

International Centre for Water Management Services (CEWAS, Switzerland)

International Water Management Institute (IWMI, Sri Lanka)

Kyoto University Graduate School of Global Environmental Studies (GSGES, Japan)

Makerere University (Kampala, Uganda)

National Sanitation Utility of Burkina Faso (ONEA)

National Sanitation Utility of Senegal (ONAS)

National Water and Sewerage Corporation (NWSC, Uganda)

Swiss Tropical and Public Health Institute (Swiss TPH, Switzerland)

Tribecraft AG (Switzerland)

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UNESCO-IHE (Netherlands)
University of Dar es Salaam (Tanzania)
University of KwaZulu-Natal, Pollution Research Group (Durban, South Africa)
University of Leeds (England)
University of Yaounde I (Cameroon)
University of Zambia (Lusaka, Zambia)
Waste Enterprisers (Mombasa, Kenya)
WEDC/Loughborough University (England)
Water Sanitation Programme (WSP) of the World Bank
World Health Organization (WHO, Switzerland)
Zürcher Hochschule für Angewandte Wissenschaften ZHAW (Wädenswil and Winterthur, Switzerland)
Zürcher Hochschule der Künste ZhdK (Zurich, Switzerland)

WORK/TRAVEL EXPERIENCE

American Samoa, Australia, Austria, Botswana, Burkina Faso, Cameroon, Canada, China, Colombia, Croatia, Cuba, England, France, Germany, Ghana, Greece, Hungary, India, Italy, Japan, Kenya, Laos, Lesotho, Malawi, Mexico, Morocco, Mozambique, Nepal, Netherlands, New Zealand, Portugal, Rwanda, Senegal, Serbia, South Africa, Scotland, Spain, Swaziland, Sweden, Switzerland, Tanzania, Thailand, Uganda, USA, Vietnam, Western Samoa, Zambia, Zimbabwe

PEER-REVIEWED SCIENTIFIC PUBLICATIONS

BOOK EDITOR – book available in English, French, Spanish, Hindi, Marathi and Tamil, Russian translation in preparation

Strande, L., Ronteltap, M., Brdjanovic, D. (editors). Faecal Sludge Management: Systems Approach for Implementation and Operation. 432 pg. ISBN: 9781780404721 (Hardback) 9781780404738 (eBook), IWA Publishing, London. 2014.

AUTHORED BOOK CHAPTERS – book available in English, French, Spanish. Hindi, Marathi and Tamil, Russian translation in preparation

Strande, L., The Global Situation. Faecal Sludge Management: Systems Approach for Implementation and Operation. 1-14. ISBN: 9781780404721 (Hardback) 9781780404738 (eBook), IWA Publishing, London. 2014. Translation in Spanish and French.

Strande, L., The Way Forward. Faecal Sludge Management: Systems Approach for Implementation and Operation. 389-402. ISBN: 9781780404721 (Hardback) 9781780404738 (eBook), IWA Publishing, London. 2014.

Niwagaba, C., Mbéguéré, M., **Strande, L.** Quantification, Characterization, and Treatment Objectives. Faecal Sludge Management: Systems Approach for Implementation and Operation. 19-44. ISBN: 9781780404721 (Hardback) 9781780404738 (eBook), IWA Publishing, London. 2014.

Bassan, M., Dodane, P.H., **Strande, L.** Treatment Mechanisms. Faecal Sludge Management: Systems Approach for Implementation and Operation. 45-66. ISBN: 9781780404721 (Hardback) 9781780404738 (eBook), IWA Publishing, London. 2014.

CURRICULUM VITAE

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Kengne, I.M., Moya, B., **Strande, L.** Enduse of Treatment Products. Faecal Sludge Management: Systems Approach for Implementation and Operation. IWA Publishing, 203-226. ISBN: 9781780404721 (Hardback) 9781780404738 (eBook), London. 2014.

BOOK CONTRIBUTOR/AUTHOR

World Health Organization (WHO) Guidelines on Sanitation and Health. Member of the Development Committee. ISBN 978-92-4-151470-5. WHO 2018.

Otoo, Miriam; Drechsel, Pay (Eds.) Resource Recovery from Waste: Business Models for Energy, Nutrient and Water Reuse in Low- and Middle-income Countries. Oxon, UK: Routledge – Earthscan, 816 pg. ISBN: 9781138016552 (hardcover) 9781315780863 (eBook), 2018.

REFEERED JOURNAL ARTICLES

Englund, M., Carbajal, J.P., Ferré, A., Bassan, M., Vu, T.H.A., Nguyen, V.A., **Strande, L.** Modelling quantities and qualities (Q&Q) of faecal sludge in Hanoi, Vietnam and Kampala, Uganda for improved management solutions. Accepted with revisions to Journal of Environmental Management.

Bleuler, M., Gold, M., **Strande, L.**, Schönborn, A. Pyrolysis of dry toilet substrate as a means of nutrient recycling in agricultural systems - potential risks and benefits. Accepted with revisions to Environmental Earth Sciences.

Peal, A., Evans, B., Sangaralingam, A., Ban, R., Blackett, I., Hawkins, P., Schoebitz, L., Scott, R., Sleight, A., **Strande, L.**, Roda, O. Estimating safely managed sanitation in urban areas; lessons learned from a global implementation of excreta-flow diagrams, Frontiers, in press 2020.

Ward, B.J., Gueye, A., Diop, B., Traber, J., Morgenroth, M., **Strande, L.** Evaluation of conceptual model and predictors of faecal sludge dewatering performance in Senegal and Tanzania. Water Research, 167, article 115101, 2019.

Fischer, M., Nguyen, M., **Strande, L.** Context matters: horizontal and hierarchical network governance structures in the Vietnamese sanitation sector. Ecology and Society, 24 (3):17 2019.

Andriessen, N., Ward, B.J., **Strande, L.** To char or not to char? Review of technologies to produce solid fuels for resource recovery from faecal sludge. Journal of Water, Sanitation and Hygiene for Development, 9 (2): 210-224 2019.

Gold, M., Bleuler, M., Cunningham, M., Arnheiter, R., Schönborn, A., Niwagaba, C., **Strande, L.** Operating parameters for three resource recovery options from slow-pyrolysis of faecal sludge. *Journal of Water, Sanitation and Hygiene for Development*. August 8:4, 707-717 2018.

Strande, L., Schoebitz, L., Bischoff, F., Ddiba, D., Niwagaba, C. Methods to reliably estimate faecal sludge quantities and qualities for the design of treatment technologies and management solutions. Journal of Environmental Management. 223:1, 898-907 2018.

Roni, P., Ward, B.J., **Strande, L.**, Maurer, M. Review of synthetic human faeces and faecal sludge for sanitation and wastewater research. *Water Research* Apr 1;132, 222-240 2018.

Gold, M., Harada, H., Therrien, J.-D., Nishida, T., Cunningham, M., Semiyaga, S., Fujii, S., Niwagaba, C., Dorea, C., Nguyen, V.-A., **Strande, L.** Cross-country analysis of faecal sludge dewatering. *Environmental Technology* Sep 12, 1-11 2017.

Schoebitz, L., Bischoff, F., Lohri, C.R., Niwagaba, C., Siber, R., **Strande, L.** GIS analysis and optimization of faecal sludge logistics at city-wide scale in Kampala, Uganda. *Sustainability* 9:2, 194-2017.

Gold, M., Sekigongo, P., Ddiba, D., Seck, A., Niwagaba, C., Diene, A., Diaw, S., Niang, S., **Strande, L.** Faecal sludge as a solid industrial fuel: A pilot-scale study. *Journal of Water, Sanitation and Hygiene for Development* 7:2, 243-251 2017.

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- Gueye, A., Mbeguere, M., Niang, S., Diop, C., **Strande, L.** Novel plant species for faecal sludge drying beds: Survival, biomass response and forage quality. *Ecological Engineering*. 94, 617-621, 2016.
- Gold, M., Dayer, P., Faye, C., Clair, G., Seck, A., Niang, S., Morgenroth, E., **Strande, L.** Locally produced natural conditioners for dewatering of faecal sludge, *Environmental Technology* April 17, 1-13, 2016.
- Bischel, H., Oezel, B., **Strande, L.**, McArdell, C., Udert, K., Kohn, T. Pathogens and pharmaceuticals in source-separated urine in eThekweni, South Africa. *Water Research*, 85, 57-65, 2015.
- Bassan, M., Mbéguéré, M., Koné, D., Holliger, C., **Strande, L.** Success and failure assessment methodology for wastewater and faecal sludge treatment projects in low-income countries. *Journal of Environmental Planning and Management*, 58 (10) 1690-1710, 2015.
- Udert, K.M., Buckley, C.A., Etter, B., McArdell, C., Kohn, T., **Strande, L.**, Hug, A., Wächter, M., Zöllig, H. Technologies for the treatment of source-separated urine in eThekweni. *Water SA*, 41 (2) 2015.
- Seck, A., Gold, M., Niang, S., Mbéguéré, M., Diop, C., **Strande, L.** Technology development of unplanted drying beds for resource recovery from faecal sludge: fuel production in Sub-Sahara Africa. *Journal of Water Sanitation and Hygiene for Development*, 5 (1) 72-80, 2015.
- Sonko, E.h.M., Mbéguéré M., Diop, C., Niang, S., **Strande, L.** Effect of hydraulic loading frequency on performance of planted drying beds for the treatment of faecal sludge. *Journal of Water Sanitation and Hygiene for Development* 4(4) 633-641 2014.
- Kengne, E.S., Kengne, I.M., Nguetsop, V.F., Foubi, I.S., Akoa, A., **Strande, L.** Algal diversity and distribution in Waste Stabilization Ponds treating faecal sludge leachate from drying vegetated beds. *International Journal of Biological and Chemical Sciences* 8(3): 946-955, 2014.
- Tilley, E., **Strande, L.**, Lüthi, C., Mosler, H.-J., Udert, K., Gebauer, H., Hering, J.G. Looking beyond technology to provide adequate and sustainable sanitation in low income countries. *Environmental Science & Technology* 48(17) 9965–9970, 2014.
- Kengne, E.S., Kengne, I.M., Arsenea, L.N.W., Akoa, A., Nguyeng –Viet, H., **Strande, L.** Performance of Vertical Flow Constructed Wetlands for Faecal Sludge Drying Bed Leachate: Effect of Hydraulic Loading. *Ecological Engineering* 71 384–393, 2014.
- Diener, S., Semiyaga, S., Niwagaba, C., Murray, A., Gning, J.B., Mbéguéré, M., Ennin, J.E., Zurbrugg, C., **Strande, L.** A value proposition: resource recovery from faecal sludge – can it be the driver for improved sanitation? *Resources Conservation & Recycling* 88 32-38, 2014.
- Murray Muspratt, A., Nakato, T., Niwagaba, C., Dione, H., Baawuah, N., Kang, J., Stupin, L., Regulinski, J., Mbéguéré, M., **Strande, L.** Fuel Potential of Faecal Sludge: Calorific Value Results from Uganda, Ghana, and Senegal. *Journal of Water Sanitation and Hygiene for Development* 4:2 223-230, 2014.
- Bassan, M., Mbéguéré, M., Zabsonre, F., **Strande, L.** Integrated faecal sludge management scheme for the cities of Burkina Faso. *Journal of Water, Sanitation and Hygiene for Development* 3 216-221, 2013.
- Dodane, P.H., Mbéguéré, M., Ousmane, S., **Strande, L.** Capital and Operating Costs of Full-Scale Faecal Sludge Management and Wastewater Treatment Systems in Dakar, Senegal. *Environmental Science & Technology* 46:7 3705-3711, 2012.
- Gaulke, L.S.**¹, Weiyang, X. Scanlon, A., Henck, A., Hinckley, T. Evaluation Criteria for Implementation of a Sustainable Sanitation and Wastewater Treatment System at Jiuzhaigou National Park, Sichuan Province China. *Environmental Management* 45:(1) 93-104, 2010.
- Gaulke, L.S.**¹, Strand, S.E., Kalhorn, T.F., Stensel, H.D. Estrogen Biodegradation Kinetics and Estrogenic Activity Reduction for Two Biological Wastewater Treatment Methods. *Environmental Science & Technology* 43:(18) 7111-7116, 2009.

¹ formerly Linda Strande Gaulke

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- Gaulke, L.S.**¹, Strand, S.E., Kalhorn, T.F., Stensel, H.D. Estrogen Nitration Kinetics and Implications for Wastewater Treatment. *Water Environment Research*, Special Issue: Biological Treatment 81:(8) 772-778, 2009.
- Gaulke, L.S.**¹, Strand, S.E., Kalhorn, T.F., Stensel, H.D. 17 α -ethinylestradiol Transformation via Abiotic Nitration in the Presence of Ammonia Oxidizing Bacteria. *Environmental Science & Technology*, 42:(20) 7622-7627, 2008.
- Gaulke, L.S.**¹, Borgford-Parnell, J.L., Stensel, H.D. A Decentralized and Onsite Wastewater Management Course: Bringing Together Global Concerns and Practical Pedagogy. *Water Science and Technology*, 58:(7) 1397-1404, 2008.
- Gaulke, L.S.**¹, Johkasou: On-site Wastewater Treatment and Reuses in Japan. *Proceedings of the Institute of Civil Engineers - Water Management*, 159:(2) 103-109, 2006.
- Gaulke, L.S.**¹, Brown, S.L., Henry, C.L. Nitrogen Fixation and Growth Response of *Alnus rubra* Amended with Low and High Metal Content Biosolids. *Scientia Agricola*, 53:(4) 351-360. 2006.
- Gaulke, L.S.**¹, Brown, S.L., Henry, C.L. Nitrogen Fixation and Growth Response of *Alnus rubra* Following Fertilization with Urea or Biosolids. *Scientia Agricola*, 53(4) 361-369, 2006.

IN PREPARATION

- Velkushanova, K., **Strande, L.**, Ronteltap, M., Koottatep, T., Brdjanovic, D., Buckley, C. (book editors) Methods for Faecal Sludge Analysis, in preparation as IWA publication.
- Strande, L.**, Englund, M., Carbajal, J.P., Scheidegger, A. (book chapter) Estimating quantities and qualities (Q&Q) of faecal sludge at community to citywide scales, in preparation for Methods for Faecal Sludge Analysis as IWA publication.

REFEREED CONFERENCE PROCEEDINGS

- Moto, N., Esanju, M., Andriessen, N., Kimwaga, R., **Strande, L.** Use of chitosan and *Moringa oleifera* as conditioners for improved dewatering of faecal sludge. *41st WEDC International Conference, Nakuru Kenya, 2018.*
- Andriessen, N., Schoebitz, L., Bassan, M., Bollier, S., **Strande, L.** Market Driven Approach for faecal sludge treatment products. *40th WEDC International Conference, Loughborough, UK, 2017.*
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