

Curriculum Vitae

DI Franziska Klauser MSc

(formerly: Meier)

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Employments:

- At present: Researcher at BEST – Bioenergy and Sustainable Technologies GmbH (formerly: “BIOENERGY 2020+ GmbH”)
Inffeldgasse 21b, 8010 Graz
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Area: Fixed Bed Conversion Systems
Unit: Emission Technology and Research
- 08/2014 - 01/2018: Junior Researcher at BIOENERGY 2020+ GmbH
03/2014 - 07/2014: ERASMUS internship at SLU Sweden in Umeå,
Department: Forest Technology and Biomaterials
- 03/2013 - 10/2013: Project assistant at Bioenergy 2020+ GmbH
- 06/2012 - 07/2012: Minor employment at TU Munich/TFZ Straubing
- Before 2011 Various employments in different companies (food and feed processing, insurance, plant breeding, farming in Ireland)

Education:

- 2016-2020: PhD at Vienna University of Technology
Doctoral programme in Natural Sciences - Technical Chemistry
Title of the thesis: Characterization of real-life benzo(a)pyrene emissions of residential wood combustion furnaces
- 2011- 2014: University of Natural Resources and Life Sciences, Vienna and
Technical University of Munich
International Master programme: Material and Energetic Exploitation of Renewable Raw Materials (NAWARO)

	Title of Master thesis: Pellet off-gassing during storage Influence of raw material and O ₂ availability
2008 – 2011	University of Natural Resources and Life Sciences, Vienna Bachelor: Agricultural Sciences
2002 - 2007	Secondary school qualification for Food Technology and Biotechnology (Francisco Josephinum) School leaving examination - with distinction
1994 - 2002	Elementary school and Grammar school

Language skills:

- German (native)
- English (fluent)
- Latin
- Spanish (basics)

International Experience:

- Farming in Ireland (06/2005 – 07/2005)
- Semester abroad at TU Munich, Germany (04/2012 – 08/2012)
- Internship at SLU Umea, Sweden (04/2014 – 07/2014)

Research Topics:

- Biomass Combustion
- Combustion derived emissions with focus on dust and polycyclic aromatic hydrocarbons
- Pellet off-gassing during storage

Scientific activities:

Publications

Meier, F., Sedlmayer, I., Emhofer, W., Wopienka, E., Schmidl, C., Haslinger, W., Hofbauer, H., 2016. Influence of Oxygen Availability on off-Gassing Rates of Emissions from Stored Wood Pellets. *Energy Fuels* 30, 1006-1012. <https://doi.org/10.1021/acs.energyfuels.5b02130>

Klauser, F., Schwabl, M., Kistler, M., Sedlmayer, I., Kienzl, N., Weissinger, A., Schmidl, C., Haslinger, W., Kasper-Giebl, A., 2018c. Development of a compact technique to measure benzo(a)pyrene emissions from residential wood combustion, and subsequent testing in six modern wood boilers. *Biomass Bioenergy* 111, 288–300. <https://doi.org/10.1016/j.biombioe.2017.05.004>

Klauser, F., Carlon, E., Kistler, M., Schmidl, C., Schwabl, M., Sturmlechner, R., Haslinger, W., Kasper-Giebl, A., 2018a. Emission characterization of modern wood stoves under real-life oriented operating conditions. *Atmos. Environ.* 192, 257–266. <https://doi.org/10.1016/j.atmosenv.2018.08.024>

Klauser, F., Schmidl, C., Reichert, G., Carlon, E., Kistler, M., Schwabl, M., Haslinger, W., Kasper-Giebl, A., 2018b. *Effect of Oxidizing Honeycomb Catalysts Integrated in a Firewood Room Heater on Gaseous and Particulate Emissions, Including Polycyclic Aromatic Hydrocarbons (PAHs).* *Energy Fuels* 32, 11876–11886. <https://doi.org/10.1021/acs.energyfuels.8b02336>

Lectures

Meier, F., Schwabl, M., Sedlmayer, I., Kistler, M., Schmidl, C., Weissinger, A., Haslinger, W., 2016. *Benzo(a)pyrene emission in the flue gas from modern biomass boilers,* in: *24th EUBCE Proceedings. Presented at the 24th European Biomass Conference, Amsterdam.*

Schmidl, C., Kelz, J., **Klauser, F.,** Kumar-Verma, V., Schwabl, M., Schwarz, M., 2016. *Real-life emission of automatically stoked biomass boilers. Presented at the 20th ETH Conference on Combustion Generated Nanoparticles, Zurich.*

Klauser, F., Schwabl, M., Sedlmayer, I., Kistler, M., Schmidl, C., Weissinger, A., Haslinger, W., Kasper-Giebl, A., 2017. *A compact BaP emission measurement method for residential wood combustion and preliminary results from modern biomass boiler testing. Presented at the 5th Central European Biomass Conference, Graz.*

Sturmlechner, R., Schmidl, C., Carlon, E., Reichert, G., Stressler, H., **Klauser, F.,** Kelz, J., Schwabl, M., Kirchsteiger, B., Kasper-Giebl, A., Höftberger, E., Haslinger, W., 2019. *Real-life emission factor assessment for biomass heating appliances at a field measurement campaign in Styria, Austria, Air Pollution in: Aveiro, Portugal, 2019: pp. 221–231.* <https://doi.org/10.2495/AIR190221>

Posters

Meier, F., Schwabl, M., Sedlmayer, I., Kleinhapfl, M., Schmidl, C., Haslinger, W., 2015. *Benzo(a)pyrene Emission Measurements in Flue Gas from Residential Biomass Combustion Appliances,* Presented at the 23rd European Biomass Conference and Exhibition, Vienna.

Klauser, F., Kelz, J., Schwabl, m., Stressler, H., Sturmlechner, R., Reichert, G., Schmidl, C., Weissinger, A., 2017. *Clean Air by Biomass – Demonstration of clean and efficient combustion of biomass,* Presented at the 5th Central European Biomass Conference, Graz.

Klauser, F., Schmidl, C., Schwabl, M., Haslinger, W., 2018. *Effect of an oxidizing catalyst on PAH emissions at firewood combustion, Presented at the 22nd ETH-Conference on Combustion Generated Nanoparticles, Zurich.*

Master thesis

Meier, F., 2014. *Pellet off-gassing during storage: The impact of storage conditions and type of source material.* University of Natural Resources and Life Sciences, Vienna, Vienna.

Doctoral thesis

Klauser, F., 2020. *Characterization of real-life benzo(a)pyrene emissions of residential wood combustion furnaces.* Vienna University of Technology, Vienna.