

PFAS-Σ-IT

International PFAS Summit: 04-05 April, 2022



On 04-05 April 2022, the University of Tübingen (Hydrogeochemistry Group, the Environmental Analytical Chemistry Group, and the Platform Environmental Systems) will host an International PFAS Summit. The summit is funded by the [Universities Excellence Strategy](#) as part of its Summer and Winter School programs for Young Researchers. The summit is organized in collaboration with the Morwick G360 Groundwater Research Institute (University of Guelph), Canada.

The summit contributes to the key research issues concerning the occurrence, transport, and transformation of PFAS. Foci are PFAS at large-scale contaminated sites (scale of the problem) and possible solutions by new approaches and techniques (scope of the solution).

The event will be held in a hybrid format (in-person and virtually).

- Summit Venue: GUZ - Geo- and Environmental Center, University of Tübingen, Schnarrenbergstraße 94-96, 72076 Tübingen



Conference Program

Monday, 04 April 2022

REGISTRATION & COFFEE (starting 08:30 h)

- 09:30 h - Peter Grathwohl**, *Vice President for Research, University of Tübingen*: Welcome & Introduction

Session I -- Scale of The Problem

- 09:45 h - Klaus Röhler** et al., *University of Tübingen*: PFAS leaching tests for groundwater risk assessment ([Abstract](#))
- 10:15 h - Alex Haluska** & Bernd Susset, *University of Tübingen*: Long-term behavior of PFAS in contaminated agricultural soils in Germany ([Abstract](#))

COFFEE BREAK & POSTERS (10:45 h)

- 11:15 h - Joshua Walter** & Reiner Söhlmann, *Landratsamt Rastatt, Germany*: The Rastatt PFAS Case: Overview, history, scale of the problem, and experiences from field investigations ([Abstract](#))
- 12:00 h - Boris Bugsel** et al., *University of Tübingen*: Analysis and fate of precursors and transformation products of per- and polyfluorinated alkyl substances (PFAS) ([Abstract](#))

CATERED LUNCH & POSTERS (12:45 h)

- 13:45 h - Lukas Lesmeister** & Frank Sacher, *DVGW-Technology Centre Water – TZW, Karlsruhe*: Fluorinated compounds from technical products of paper industries: transformation and transfer in the environment ([Abstract](#))
- 14:30 h - Thomas Bierbaum** et al., *University of Stuttgart*: PFAS immobilization on various scales: Laboratory experiments and mathematical modelling ([Abstract](#))

COFFEE BREAK & POSTERS (15:15 h)

- 15:45 h - Helena Salowsky** et al., *LUBW Landesanstalt für Umwelt Baden-Württemberg, Karlsruhe*: PFAS in soils of long-term soil monitoring sites ([Abstract](#))
- 16:15 h - Runa Boeddinghaus** et al., *Landwirtschaftliches Technologiezentrum Augustenberg (LTZ), Karlsruhe*: Real world study on PFAS uptake from contaminated soils into crops and influences of soil properties ([Abstract](#))

SHORT BREAK (17:00 h)

Session II – Scope of the Solution

LIGHTNING TALKS (5 minutes short presentations starting 17:15 h; titles t.b.a; downloads of corresponding presentations will be available the week before the conference)

- **Mark L. Brusseau**, *University of Arizona, USA*: PFAS Adsorption at Air-Water Interfaces ([📄 Abstract](#)) ([📺 Video](#))
- **Linda Abriola**, *Brown University, USA* & **Masoud Arshadi**, *Tufts University, USA*: Recent Advances in Modeling PFAS Transport and Retention in AFFF Source Areas ([📄 Abstract](#)) ([📺 Video](#))
- **Paul Tratnyek**, *Oregon Health & Science University, USA*, **Dominic DiToro**, *University of Delaware, USA*, et al.: In-Silico Prediction of Fate- and Risk-Determining Properties of Per- and Polyfluoroalkyl Substances ([📄 Abstract](#)) ([📺 Video](#))
- **Paul Hatzinger**, *Biotechnology Development and Applications Group, APTIM, USA*: Use of colloidal activated carbon for in situ treatment of PFAS contaminated groundwater ([📄 Abstract](#)) ([📺 Video](#))
- **Mike Annable**, *University of Florida, USA*: Assessment of PFAS mass fluxes using passive samplers ([📄 Abstract](#)) ([📺 Video](#))
- **Lutz Ahrens**, *Swedish University of Agricultural Sciences, SWE*: An overview of in-situ remediation techniques for removal of PFASs in soil and groundwater and their adsorption processes ([📄 Abstract](#)) ([📺 Video](#))

END DAY 1 (18:30 h)

DINNER IN THE OLD TOWN (19:00 h)

Tuesday, 05 April 2022

REGISTRATION & COFFEE (starting 08:30 h)

- **09:00 h - Beth Parker**, *Head of G360 Research Institute, Guelph University, Canada*: Essential role of field-based research to inform general and site conceptual models for emerging contaminants: lessons learned from chlorinated solvents ([📄 Abstract](#))
- **09:45 h - Jens Blotevogel**, *Colorado State University, USA*: A deep dive into PFAS precursors by FT-ICR MS and implications for characterization, treatment, and forensics ([📄 Abstract](#))

COFFEE BREAK & POSTERS (10:30 h)

- **11:00 h - Chris Higgins**, *Colorado School of Mines, USA*: Factors controlling the release of PFAS from AFFF impacted soils ([📄 Abstract](#))
- **11:45 h - Anett Georgi** et al., *Helmholtz Centre for Environmental Research - UFZ, Germany*: Adsorption of PFAS on Activated Carbon: Improvements and Novel Applications ([📄 Abstract](#))

CATERED LUNCH & POSTERS (12:30 h)

- **13:30 h - Thomas Wanzek** et al., *Oregon State University, USA*: Identifying the mechanisms of PFAS (anionic and zwitterionic) sorption to soil horizons ([📄 Abstract](#))
- **14:15 h - Anna Rigol** et al., *Universitat de Barcelona, Spain*: Modelling the sorption behaviour of perfluoroalkyl carboxylates and perfluoroalkane sulfonates in soils and carbon-rich materials ([📄 Abstract](#))

COFFEE BREAK & POSTERS (15:00 h)

- **15:30 h - Kela Weber**, *Royal Military College of Canada, CAN*: Developing remediation technologies for per- and polyfluoroalkyl substances (PFAS) in soil and water: Progress and Challenges ([📄 Abstract](#))
- **16:15 h - Jovan Popovic**, *Naval Facilities Engineering and Expeditionary Warfare Center (NAVFAC EXWC), Port Hueneme, USA*: Understanding the Potential for Monitored Natural Attenuation at PFAS-Impacted Sites (via Zoom)
- **16:35 h - Final Discussion** (moderated by **Christian Zwiener**, *University of Tübingen*, and **Jens Blotevogel**, *Colorado State University*)
- **Closing Statements**, *University of Tübingen*

END DAY 2 (17:00 h)

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