



**UNIVERSITÉ
DE GENÈVE**

INSTITUT DES SCIENCES
DE L'ENVIRONNEMENT

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CYCLE DE FORMATION ÉNERGIE – ENVIRONNEMENT
SÉMINAIRE 2020-2021

Legionella in hot water systems: new standard SIA 385/1:2020 and recent results from field studies in Switzerland

Michel Haller
SPF / OST

Jeudi 6 mai 2021 à 17h15

Cette conférence aura lieu uniquement via Zoom – pas de suivi en présentiel !

Lien pour la diffusion en direct avec Zoom :
<https://unige.zoom.us/j/97961441516>

ID de réunion : 979 6144 1516
Code secret : 819808

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L'orateur

Michel Haller has a Master degree in Environmental Sciences from ETH, and a Ph.D. in Mechanical Engineering from TU Graz on Solar and Pellet heating systems.

Since 2015, he is Head of Research of SPF Institute for Solar Technology at OST (Ostschweizer Fachhochschule). He also is a member of the committee SIA 385 and member of CEN/TC164 WG2, both on water systems in buildings.

His main research topics are:

- energy system simulations, targeting high renewable fractions,
- thermal energy storage and temperature stratification / exergetic performance of thermal storage,
- legionella in hot water systems and the role of temperatures and storage devices,
- renewable metal energy carriers for seasonal energy storage.

La conférence

Legionella are human pathogens that are present in usually low concentrations in the environment. They may reproduce uncontrolled in environments that are anthropogenic influenced, and cause severe illness (legionellosis) when inhaled, with a mortality of 5-10% of reported cases.

Domestic hot water systems are one of the identified sources for Legionella infections and must thus meet certain requirements for Legionella-safety. The SIA standard 385/1:2020 defined new rules concerning the installation and operation of domestic hot – and cold – water systems for Legionella prevention, and a field study that was carried out by SPF Institute for Solar Technology in 2019 and 2020 shows interesting results concerning the occurrence of Legionella in hot water systems, possible causes, and measures for elimination.