

Conférence (en langue anglaise)



**Mercredi 23 octobre 2024, 14 h Faculté de Médecine de Grenoble
Batiment Jean Roget . Amphithéâtre inférieur nord**

Stratégies innovantes et techniques de modélisation relatives aux milieux agricoles aquatiques contaminés et à leurs impacts sur la santé humaine

Exemples d'implémentation en Asie du sud-est et adaptations potentielles aux pays occidentaux

Les incidences d'une mauvaise gestion des activités agricoles sur la dégradation de l'environnement et sur les risques pour la santé humaine sont illustrées à partir d'exemples, au Japon et au sud-est asiatique.

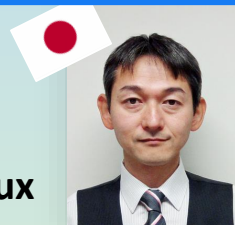
Des stratégies d'assainissement novatrices ont été mises en place pour atténuer ces impacts. Les moyens par lesquels ces procédures et techniques pourraient être transposées et mises en œuvre dans d'autres pays sont discutés. Ils montrent notamment qu'une certaine normalisation des outils aiderait à atteindre l'ODD #6 de l'ONU*, relatif à l'alimentation en eau et à l'assainissement.

Speaker

Dr Hiroaki SOMURA

Associate Professor, Université d'Okayama - JAPON

Hydrologie – Gestion des bassins versants– Qualité des eaux



Co-organisateurs



- **Objectifs de développement durable : programme conçu par l'UNESCO en 2015, dans lequel le Japon est très impliqué.**

Speaker short BIO

Dr. Hiroaki SOMURA, joined Okayama University as associate professor in 2018. He specializes in hydrology, water quality, and watershed management. His expertise is focused on monitoring and modelling of water environment.

His Ph.D. dissertation was focused on the analysis of groundwater quality ($\text{NO}_3\text{-N}$) to investigate of the contamination origins and evaluate mitigation scenarios for improving the conditions of groundwater.



His current research interests are dedicated to “Investigations of climate change and watershed development as a function of watershed hydrology, water quality, and habitat environment of benthic animals by using Soil and Water Assessment Tool (SWAT)”. He has also been conducting for several years field research in paddy fields in Japan paying attention to the impact of farming activities on water quality with a specific focus on monitoring pollution associated with thousands of Tundra Swan’s droppings used as an organic fertilizer in the paddy fields (they are overwintering for 5 months from October each year).

He has substantial International experience in South-East Asia: Thailand, Malaysia, Cambodia, Laos, Vietnam, Indonesia where Agroforestry has been growing for 15 years and due to poor regulations, can be a big concern for water pollution.

At Okayama University, he teaches Environmental Meteorology, Environment and Biology, Introduction to Fluid Mechanics, Basic Hydraulics, Programming C Language, Hydraulic Experiment, Basic Experiments in Engineering (Undergraduate). At Graduate level: Rural Environmental Meteorology, Biological Environmental Hydrology, Water Resources Management, Special Topics in Watershed Environment, etc.

He has been welcoming international students for many years from Asia, Africa and more recently from France: Sorbonne University, Poitiers University partners in the International Research Internship program. In 2023-2024, 1 student from Thailand and 4 students from Europe (France in particular) joined his research group for professional research internships.

He was ERASMUS fellow in 2023 @ Savoie Mont-Blanc University (Pr. DUCLAUX group): mobility of the KA-171 program. In June 2024 he took part in the SMILE-ERASMUS program of USMB.