

Special Session 4: March 17, 10:30–12:00 (JST)

Material Cycles in Construction Works

Organized by the Japan Society of Material Cycles and Waste Management

The Journal of Material Cycles and Waste Management is currently running a Special Issue entitled “Material cycles in construction works” to explore the contributions of construction industry to solutions and prescriptions for technical, political, and environmental problems of material cycles and waste management. This session collaborates with the special issue and introduces some latest and innovative achievements in reuse and recycle of municipal and industrial wastes in construction works. Also, the session would like to give a comprehensive review on Japanese status on sustainable management of construction and demolition materials including excavated surplus soils.

Program

Session Chair : Dr. Toru Inui, Osaka University, Editor of the Journal of Material Cycles and Waste Management

10:30-10:35

Introduction and welcome

Dr. Toru Inui, Osaka University, Japan

10:35-11:00: Special presentation

Government initiatives for sustainable management of demolition materials and surplus soils (Tentative)

Prof. Takeshi Katsumi, Kyoto University, Japan

11:00-11:45: General presentations

Hydroponic technique using waste concrete and ferronickel slag instead of fertilizer

Hiroyuki Ishimori, National Institute for Environmental Studies, Japan

Effect of mixed slag aggregate replacement on performance of asphalt concrete (TBC)

Pei Liu, Feng Chia University, Taiwan

Predicting the particle size distribution of fine-grained and sandy soils using deep learning for classifying recovered soils separated from tsunami deposits

Masaya Iwashita, Okumura Corporation, Japan

11:45-12:00: Q&A and Summary