

招 へ い 研 究 者 報 告 書

招へい研究者氏名	チュラロンコン大学 (タイ) Tanawat Tangjarusritaratorn			
招 へ い 期 間	(西暦) 2025 年 11 月 17 日 ~2025 年 12 月 30 日			
受 入 機 関	環境都市工学部			
受 入 担 当 者	所 属	環境都市工学部	資 格	准教授
	氏 名	宮崎 祐輔		
講演会実績 (本欄は国際部 HP にて公開します)				
○研究者向け講演会タイトル : Experimental Investigation of Internal and Surface Erosion Mechanisms in Cohesionless Soils				
○日時 : December 10, 2025, 13:00-14:30				
○概要 : In this seminar, Dr. Tanawat presented his research on the mechanisms of internal and surface erosion in granular soils, which significantly influences the stability of embankments and foundations. The lecture focused particularly on suffusion in gap-graded soils, explaining how fine particles migrate through pore spaces and alter hydraulic conductivity. Dr. Tanawat introduced a macroscale experiment using laser-cut acrylic disks that enable the direct visualization of particle behavior through image-based and machine-learning techniques. The findings presented in this seminar helped the audience, including researchers and graduate students, deepen their understanding of erosion initiation and supported the development of more reliable predictive models for geotechnical engineering. Dr. Tanawat and the participants engaged in a fruitful discussion regarding soil-structure interaction and hydraulic loading.				
○学生向け講演会タイトル : Introduction to Sediment Transportation				
○日時 : December 19, 2025, 10:40-12:10				
○概要 : In this lecture, Dr. Tanawat explained the fundamental concepts of sediment transportation in rivers and channels to provide undergraduate students with a basic understanding of how water flow moves soil particles. He discussed the different modes of transport, such as bed load (rolling and sliding) and suspension, and how these movements lead to the formation of ripples and significant topographical changes. The seminar highlighted the practical importance of understanding sediment transport for reservoir maintenance and bank erosion control. This session was particularly beneficial for students interested in soil mechanics and fluid dynamics, offering them insights into the management of safe and efficient water environments. Students also had the opportunity to engage with Dr. Tanawat in English, gaining international perspectives on civil and environmental engineering.				