Annonce de conférence

Mardi 09.09.2014 à 10:30, GC B1 10 (génie civil)

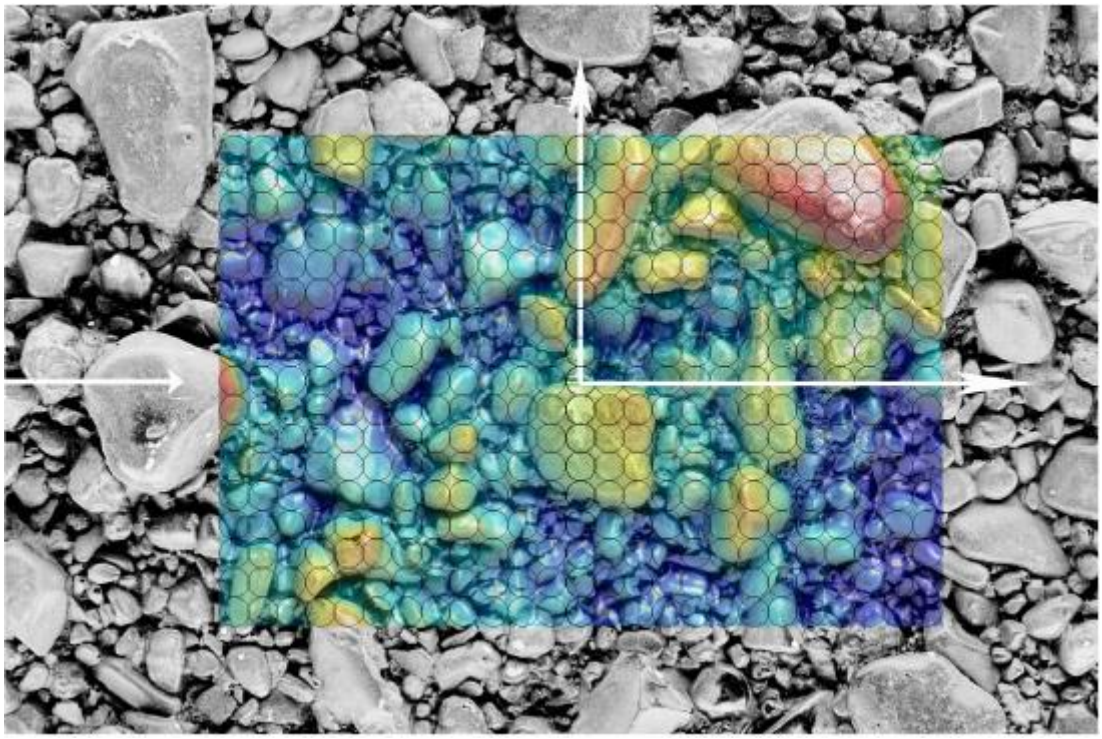
Dr Heide Friedrich

University of Auckland, New Zealand

What lies beneath

Making the physical water-worked environments processes visible

Abstract: The presenter will take you on a tour of the diverse projects her research group is working on. The projects focus on processes taking place in water-worked environments, such as rivers: sediment movement/transport and associated flow analysis. Work is taking place in the Fluid Mechanics Laboratory at the University of Auckland. Her strong research interest is in using imagery to study sediment transport processes, and she will present the progression from using photogrammetric particle tracking for cluster evolution studies to characterising riverbeds with stereo-photogrammetry. Recently, her Team developed the world's leading close-range 3D stereovision system for gravel-bed studies. It allows instant capturing of Digital Elevation Models (DEMs), resolving over 30 million points/m^2. In addition to mobile-boundary research, she is presenting work on density flow structures.



Gravel bed imagery

Biography: Dr Heide Friedrich received her undergrad civil engineering degree from TU Berlin, Germany and her postgrad degree from the University of Auckland, New Zealand. She has since been working in hydraulic engineering at the University of Auckland, and leads the water-worked environment research group.

La conférence sera donnée en anglais. Durée env. 45 minutes, suivie d'une discussion.

Prof. Dr Anton SCHLEISS