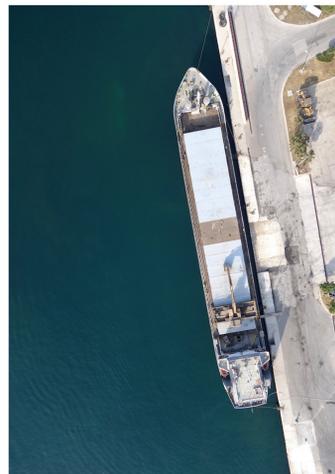
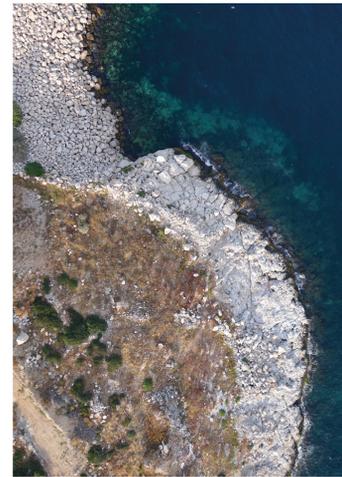
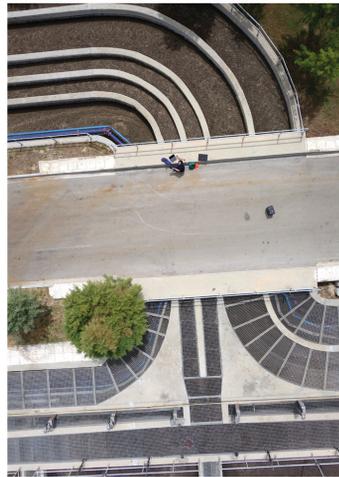


# JAMES MELSOM, LANDSKIP LAB DRONES & HIKING BOOTS : AERIAL & TERRESTRIAL STRATEGIES FOR LANDSCAPE ANALYSIS OF REMOTE SITES

Monday, 02.07.2018, 09:00 at Lecture Hall 3, UZA II



# JAMES MELSOM, LANDSKIP LAB DRONES & HIKING BOOTS : AERIAL & TERRESTRIAL STRATEGIES FOR LANDSCAPE ANALYSIS OF REMOTE SITES

The understanding of complex landscape systems relies heavily on site observation, abstract data, and comparative analysis. This is especially true of remote sites in which poor data, lack of infrastructure, and adverse environmental conditions further complicate site comprehension.

The technologies and methods in the deployment of mobile UAV platforms and site surveying have accelerated over the last decade, allowing new methods for the observation, documentation, and analysis of complex landscape systems, including the local microclimate, hydrology, vegetation, and habitat. Nevertheless specific methods are necessary to deal with remote and varied site contexts, in order to overcome physical and cost barriers. Through the use of photogrammetry, laser scanning, and deployment of various sensors, a detailed and nuanced understanding of the site can be achieved.

The lecture addresses broad strategies and applications of remote site scanning and focusses on key research case studies in which these techniques were applied. These projects highlight methods developed within academic research applications conducted at the ETH Zurich, as well as the contrasting industry consultation projects working with local governments, in Europe and worldwide.

**James Melsom** is a landscape architect and researcher based in Basel, Switzerland, specializing in teaching, research, and the practice of spatial design on projects around the world. As co-founder and coordinator of the Landscape Visualization and Modeling Lab (LVML), ETH Zurich, with Prof. Christophe Girot, he worked from 2007 to 2017 as ETH Research Associate and has lead research projects and contributed to many exhibitions and peer-reviewed publications, and book chapters in the research and design fields. He has worked on research projects and lectured worldwide at universities including Columbia, Berkeley, the Bartlett, Amsterdam Academie, Politecnico Milano, Chalmers Gothenburg, TU Munich, and many others.

In 2014 he co-founded the research platform LANDSKIP Lab in which techniques and research principles are applied to the professions of spatial design and analysis, resulting in novel approaches to challenges faced in dynamic landscape systems. The work of LANDSKIP Lab seeks to transform our understanding of our environment by innovative use of survey, sensing and design instruments. The combination of traditional, contemporary and emerging surveying and analysis techniques is applied to various scales of landscape systems. Rather than operating as a traditional practice, it functions as a permanent laboratory. Its work has been published internationally and has received recognition with various workshops throughout Europe.