



SEMINAR



JUNE 15, 2026



3:00 PM



AULA CORIOLIS

Third Floor, Department of Engineering,
Macchia Romana Campus, Potenza

Prof. Allen Bateman Pinzon

Professor (Full) at
Polytechnic University of Catalonia



TITLE

“Macroroughness, Sediment-Laden Flows and the Effective von Kármán Constant: From Laboratory Experiments to the Magdalena River”



KEYWORDS: *Hydrodynamic mechanisms, submerged structures and nature-inspired solutions for navigation improvement*



BIO

Allen Bateman is a civil engineer with a PhD in Civil Engineering and a long-standing academic and research career at the Universitat Politècnica de Catalunya, where he has served as Associate Professor since 1998. His expertise lies in fluvial hydraulics, sediment transport, local scour at bridge piers, and hydraulic laboratory experimentation. He has published extensively on bridge scour, including the paper *Local Scour at Piled Bridge Foundations*, and has supervised a number of experimental studies on bridge-pier protection, scour evolution, and sediment-related hydraulic processes. His research also encompasses advanced laboratory investigations on turbulence, morphodynamics, and PIV-based flow analysis. His invited lectures in Matera will focus on two of his main areas of expertise: bridge-pier scour and hydraulic experimentation applied to complex flow-sediment interactions.