

Water Research Laboratory

William Glamore

Associate Professor



William is an environmental scientist specialising in surface water and groundwater dynamics. He undertakes research and provides advice to government and industry on a range of topics including wetlands, estuaries, rivers and coastal environments. William's expertise includes wetlands, soils, contaminant/sediment transport, riverbank erosion, soil physics and geochemistry, water quality, hydrodynamic modelling, catchment hydrology and related numerical/physical modelling studies. He also provides independent review and advice to federal, state and industry.

William is particularly interested in restoring large wetland and riverine systems. His PhD (1999-2003) was the first long-term doctoral study to investigate the implications of restoring tidal flows to wetlands impacted by acid sulphate soils (awarded PhD of the Year at UoW). In 2005, William was awarded a Churchill Fellowship on "International Wetland Restoration Practices". In 2007, he was awarded both the PIANC Authors Award and the Kevin Stark Medal for Excellence in Coastal and Ocean Engineering. In 2008, William was the first Australian to be awarded the International De Paepe-Willems Award. In 2013, he received the National Trust of Australia's Natural Heritage Award as part of a long-term collaborative wetland restoration project (with Parks and Fisheries). William was also awarded a Peter Cullen Fellowship in 2013 and completed the Science to Policy Leadership Program. In 2014, he received Engineers Australia's Excellence Award and in 2015 a Green Globe Award. In 2017, William was appointed to the NSW Coastal Council and the Marine Estate Expert Knowledge Panel.

Qualifications

BE (Environmental Studies), University of Colorado, Boulder, 1996
PhD (Environmental/Civil Engineering), University of Wollongong, 2003
Churchill Fellow, 2005
Peter Cullen Fellow, 2013

Affiliations

Chair, International Association for Waterborne Transport (PIANC Australia)
Member, NSW Expert Panel on PFAS (Chair Water Work Subgroup)
Committee Member, Marine Estate's Expert Knowledge Panel
Committee Member, ASCE's Wetland and Sediment Management
Member, NSW Coastal Council
International Atomic Energy Agency Expert - Water Processes
Recognised 'Expert of International Standing' by ARC
Commission Member, IUCN's Commission on Eco Management

Professional history

2016-:	Associate Professor, UNSW WRL	1999-2003:	PhD Scholar, University of Wollongong
2014-2016:	Principal Research Fellow, UNSW WRL	1997-1998:	IDC Staff Instructor (Manager)
2005-2014:	Senior Research Fellow, UNSW WRL	1996-1997:	Scientific Delegate, Friendship City Project, Nicaragua
2003-2005:	Senior Project Engineer, UNSW WRL		

Career highlights

- 1st Long-term doctoral study into tidal/wetland restoration in Australia (Awarded PhD of the Year)
- Author in Island Press's *Restoring Tidal Flows to Salt Marshes*
- Awarded Churchill Fellowship in 2005 to examine international wetland restoration practices in USA, Europe, Vietnam & NZ
- Awarded Kevin Stark Award in 2007
- Awarded PIANC Authors Award in 2007
- Awarded International De Paepe-Willems Award in 2008
- Awarded National Trust of Australia's Conservation Award in 2013
- >100 technical report and journal publications
- Involved in restoring large wetlands including Tomago, Big Swamp, and Yarrhapinni Wetlands and sites in the Shoalhaven and Tweed valleys
- Providing advice on wetland restoration projects in WA, SA, NSW, QLD, ACT and NT for Governmental agencies
- Developed various 2/3D numerical modelling techniques
- Expert advisor on major wetland projects nationwide
- Developed and installed SmartGate and SwingGate infrastructure
- Director of Wetland Restoration Training Program

Summary of relevant experience

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| 1999: Kurnell Wetlands and ASS restoration | 2009: Organic sediment transport & mobilisation in Brazil |
| 2001: Multi-piezometer study of saline intrusion, coastal wetlands | 2009: Tutong Estuary dynamics and hydrosurvey, Brunei |
| 2002-06: Shoalhaven City Council ASS expert panel | 2010: Hunter River water quality & transport study |
| 2003-05: Geophysical imaging at various sites | 2010-11: Ord River stage 2 federal expert review advice |
| 2004: ASS groundwater feasibility study, Marrickville | 2010: Tomago Wetlands restoration model and plan |
| 2004: Harvesting saline groundwater for desalination | 2010: Expert review of NSW's estuarine water sharing methods |
| 2004: Design of aquifer storage scheme, Iluka | 2011: SwingGate design & installation, Tomago Wetlands |
| 2006-08: Tweed River catchment study; ASS transport | 2011: Director of Wetland Restoration Training Program |
| 1999-05: Development and installation of SmartGates | 2011: Yarrhapinni Wetland restoration model and plan |
| 2003: Brooklyn Estuary process study | 2011-12: Arndilly hydrology and restoration |
| 2003: 2D hydrodynamic model of Singapore Straits | 2012: Director of Wetland Hydrology Training Program |
| 2003-06: Tidal restoration at Shoalhaven and Newcastle | 2012: Lake Innes hydrologic isolation study |
| 2004: Boat monitoring Rozelle and Blackwattle Bay | 2012: Habitat action grant for Tomago Wetland |
| 2005-09: ADCP and drogoue tracking, Clarence River | 2012: Big Swamp hydrologic restoration study |
| 2005: Disposal of dredge material modelling, Darwin | 2012: Expert review for Tomago T4 and Fullerton Cove wetlands |
| 2006: Ash Island tidal pond habitat creation | 2012: Technical advice, Federal QLD's CSG Expert Panel |
| 2006-2008: Contaminant fate & transport, Jakarta Bay, Indonesia | 2012: Independent Science Panel, Queensland Nickel |
| 2007: Allens Creek contaminant transport study | 2012: Organising committee for Hydrology & Water Res. Symposium |
| 2007-08: Sediment & particle tracking in Darwin and Daly River, NT | 2012: Shoalhaven floodplain CASS priority planning |
| 2007-08: Tomago Wetland restoration & SmartGate design | 2012: Estuarine hydrodynamic training to NSW Gov't staff |
| 2007-09: WA Peel-Harvey wetland impact studies: expert advice | 2012: Remediation of temperate highland peat swamps on sandstone |
| 2008-09: Anna Bay Wetland restoration plan & modelling | 2012: Groundwater monitoring advice for saltmarsh rehabilitation trials |
| 2008-09: Development of Yarrhapinni restoration plan | 2012: Vulnerability riverbank assessment for upper Shoalhaven River |
| 2008: Impact of catchment modification on SA wetlands | 2012: Vulnerability assessment for Seaham Weir Pool |
| 2009: Federal Government advice on SA Lower Lakes | |
| 2009: China-Australia Wetland Symposia | |