

Name: David Laurence HIGGITT  
Current Position: Academic Dean, Lancaster University College at Beijing Jiatong University, China

### ***Education and Qualifications***

1987-1990 University of Exeter  
PhD, Faculty of Science, NERC Studentship  
1984-1987 University of Oxford (Keble College)  
BA (Hons) in Geography, First Class Honours, 1987.

### ***Employment and Appointments***

2017-present **LANCASTER UNIVERSITY, CHINA**  
Academic Dean, Lancaster University College at Beijing Jiaotong University  
2014-2017 **UNIVERSITY OF NOTTINGHAM NINGBO CHINA**  
Chair Professor of Geographical Sciences, Faculty of Science and Engineering  
2004-2013 **NATIONAL UNIVERSITY OF SINGAPORE**  
2009-present Professor of Physical Geography (with Tenure)  
2004-2009 Associate Professor  
1994-2003 **UNIVERSITY OF DURHAM, UK**  
2001-2003 Senior Lecturer in Geography  
1994-2001 Lecturer in Geography  
1990-1994 **LANCASTER UNIVERSITY, UK**  
Lecturer in Geography

### ***Selected Prizes and Awards***

2015 Zhejiang 1000 Talents Award  
2014 Ningbo 3315 Individual Plan Award  
2012 Chinese Academy of Sciences Visiting Professorship  
2006-08 Faculty Teaching Excellence Award, National University of Singapore x 3  
2006 Visiting Fellowship, University of Queensland, Australia  
2001 Gordon Warwick Award of the British Geomorphological Research Group (for contribution to geomorphological research excellence)  
2001 University of Durham Excellence in Teaching Award  
2001 Hwa Ying Visiting Scholar, Nanjing University, China

### ***Leadership in National and International Organisations***

Asia Oceania Geosciences Society: Secretary General (2011-2015); re-elected for second term to 2017.  
International Association of Geomorphologists: Executive Committee Member (2005-2009 and 2009-2013) – responsibility for media relations and SE Asia.  
Singapore Branch of the Royal Geographical Society: Founding Chair until 2013

### ***Research Field***

My research is concerned with the interaction between environmental change and earth surface processes. In particular, attention is focussed on sediment delivery processes – the temporal and spatial dynamics of sediment production and transfer and the extent to which it is sensitive to environmental change. This work encompasses three themes of soil erosion assessment, construction of fluvial sediment and nutrient budgets and the interactions between erosion processes and surface characteristics.

### **Recent External Research Grants**

- 2016 Ningbo East New Town Management Committee: Sponge City Assessment, PI, 880500 RMB
- 2014 **Ningbo Science and Technology Bureau**: Ningbo risk assessment study of flood caused by heavy rainfall and tides (PI James Griffiths, D Higgitt as collaborator) 100,000 RMB
- 2014 **Ningbo Soft Science Project**: Investigation of water quality in Ningbo in relation to land-cover type (PI James Griffiths, D Higgitt as collaborator), 40,000 RMB
- 2013 **National Parks Board**, Singapore Biodiversity of Nee Soon Swamp Forest. Phase 2 (PI Liong Shue Yui, Tropical Marine Science Institute, D. Higgitt as co-PI). Total grant = S\$ 5.7 Million. DH component = S\$700,000
- 2013 **Ministry of Education** – Tier 1, Singapore. Landslide dam on the Yangtze. Reconstruction of a mega-hazard. PI, S\$60,000
- 2011 **Economic Development Board** – Metal, Mineral and Materials Technology Centre, Singapore. Novel methods for detection of coal-bearing strata from remote sensing. PI (with collaborators in Engineering and CRISP), S\$278,000, 1.5 years.
- 2011 **Global Asia Institute, Singapore**: River Rehabilitation: Alternative approaches to flood management in Asian Cities. PI, S\$220,000, 2 years.
- 2010 **National Parks Board**, Singapore: Biodiversity of Nee Soon Swamp Forest Phase 1 (PI Liong Shue Yui, Tropical Marine Science Institute, D. Higgitt as co-PI). Total grant = S\$ 990,000. DH component = S\$150,000, 1.5 years
- 2010 **National Parks Board**, Singapore Stream Acidification in the Central Catchments S\$150,000. PI, 2 years
- 2008 **National Research Fund / Ministry of Education**, Singapore: Promoting Geospatial Literacy and Environmental Awareness with Participatory GIS. IDM Programme S\$590,640. PI, 3 years

### **Selected Publications**

- Mogridge, H.L. and Higgitt, D.L. 2014 Interactions between riparian vegetation and fluvial processes within tropical Southeast Asia: Synthesis and future directions for research. *Progress in Physical Geography* doi:10.1177/0309133314548745
- Higgitt, D.L., Zhang, X.B., Liu, W.M., Tang, Q., He, X.B. and Ferrant, S. 2014 Giant paleo-landslide dammed the Yangtze River. *Geoscience Letters*, 1.6 (open access)
- Higgitt, D.L. (editor) 2012 *Perspectives on Environmental Management and Technology in Asian River Basins* (Dordrecht: Springer) 122pp.
- Higgitt, D.L. 2012 Large rivers and sediment cascades: Connectivity and discontinuity, *International Journal of Erosion Control Engineering*, 5(1), pp. 9-15.
- Higgitt, D.L. and Brierley, G.B. 2011 New approaches to flood hazard in Asian Cities. *Innovation* 10(2), 36-39.
- Higgitt, D.L. 2010 Continental-scale river basins. In: Burt, T.P. and Allison, R.J. (eds) *Sediment Cascades*, pp 377-402 (Chichester: Wiley-Blackwell)
- Zhang, S.R., Lu, X. X., Sun, H.G., Han, J.T. and Higgitt, D. L. 2009 Major ion chemistry and dissolved inorganic carbon cycling in a human-disturbed mountainous river (the Luodingjiang River) of the Zhujiang (Pearl River), China. *Science of the Total Environment*, 407, 2796-2807.
- Zhang, S.R., Lu, X. X., Higgitt, D. L., Chen, A.C.T., Han, J.T. and Sun, H.G. 2008 Recent changes of water discharge and sediment load in the Zhujiang (Pearl River) Basin, China. *Global and Planetary Change*, 60 (3-4), 365-380.
- Robinson, R. A. J., Bird, M. I. , Nay Win Oo, Hoey, T. B. Maung Maung Aye, Higgitt, D. L., Lu X. X., Aung Swe, Tin Tun and Swe Lhaing Win 2007 The Irrawaddy River sediment flux to the Indian Ocean: The original nineteenth-century data revisited, *Journal of Geology*, 115, 629–640.