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Current Position & Institution:

Professor, Director of the Energy and Environment Institute
University of Hull

Education (briefly):

1999-2004: Ph.D., University of Sheffield, Thesis: Flow Separation in River Meander Bends.
1996-1999: B.Sc. (Hons), Geography, University of Sheffield.
1999-2002: PGCert. PGCHE Post-Graduate certificate in Higher Education, University of Sheffield.

Research Interests:

Dan's research interests are centred on understanding the feedback and linkages between turbulent flows, sediment transport and morphodynamics in a range of environments. Dan has applied this geomorphic understanding to better understand Earth's geological past as well as predict future impacts of climate change, on for example food security. He has also worked on the development of 'process to product' models to track the stratigraphic evolution of environmental systems, including large rivers, estuaries and deep sea canyon-fan systems and has also developed future predictions of sediment delivery to mega-deltas to help guide mitigation of the resulting impacts of evolving flood potential.

Summary of Publications (e.g., numbers of publications, h-factor):

[See: orcid.org/0000-0002-5142-4466](https://orcid.org/0000-0002-5142-4466).

99 international publications; H-index = 21; 1998 citations (12 years since PhD).

Dan has published 99 papers (with an additional 3 in press) since completing his PhD in 2004, including papers in *Nature*, *Nature Communication*, *Science Advances*, *Geophysical Research Letters*, *Geology*, *Earth Surface Processes and Landforms*, *JGR-Earth Surface* and *Water Resources Research*.

Recent Papers include:

Darby, S.E., Hackney, C.R., Leyland, J., Kumm, M., Lauri, H., Parsons, D.R., Best, J.L., Nicholas A.P., and Aalto, R. (2016) Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity, *Nature* 539, 276–279, doi:10.1038/nature19809

Parsons, D.R. et al. in press. The role of bio-physical cohesion on subaqueous bedform size: *Geophysical Research Letters*. Forthcoming February 2016.

Malarkey, J., Baas, J.H., Hope, J.A., Aspden, R.J., Parsons, D.R., et al., 2015. The pervasive role of biological cohesion in bedform development: *Nature Communications* 6, 6257.

Reesink, A.J.H., Van den Berg, J.H., Parsons, D.R., Amsler, M.L., Best, J.L., Hardy, R.J., Orfeo, O., and Szupiany, R.N., 2015. Extremes in dune preservation: Controls on the completeness of fluvial deposits: *Earth-Science Reviews*, 150, 652-665.

Schindler, R.J., Parsons, D.R., et al., 2015. Sticky stuff: Redefining bedform prediction in modern and ancient environments: *Geology*, 43, 399-402.

Nijhuis, A.G., Edmonds, D.A., Caldwell, R.L., ... Parsons, D.R., et al. 2015. Fluvio-deltaic avulsions during relative sea-level fall: *Geology*, 43, 719-722.

Marra, W.A., Parsons, D.R., Kleinhans, M.G., et al. 2014. Near-bed and surface flow division patterns in experimental river bifurcations: *Water Resources Research*, 50, 1506-1530. 2015: The Bigsby Medal of The Geological Society of London; This is the GSL's premier mid-career award - bestowed biennially to an individual who has done no more than 25-years full time research. It is international and the GSL has >12k Fellows.

Honours:

2010: Gordon Warwick Medal from the British Society for Geomorphology; This medal recognises excellence in geomorphological research by someone within 15 years of their PhD award. The BSG has 890 members the award is fully international.

2008: Visiting Fellow, USGS and University of Illinois, USA

2012: Chandler-Misener Award from the International Association for Great Lakes Research

Voluntary Activities:

2005: UK Natural Environment Research Council Personal Research Fellowship
2017-present: Peer-Review College Panel A Chair, NERC, UK

2015-present: Science Officer, GM Division, European Geosciences Union

2014-present: Chair, Research Committee, British Society for Geomorphology

2014-present: Peer-Review College Core Panel Member, NERC, UK

2013-present: Associate Editor – EGU Journal – Earth Surface Dynamics

Statement (should include the vision of the candidate for the position, max. 2000 characters):

2013: Chair, International Conference on Fluvial Sedimentology, ICFS10 (407 attendees)
The EGU has continued strong growth in both membership and General Assembly (GA) attendance over the past few years. This expansion creates both an opportunity and a distinct challenge for the Union, notably around the organisation of the GA and in serving community interactions and needs.

During this period growth the Geomorphology Division (GM), in particular, has evolved into a vibrant community with a distinctive breadth of science areas. Indeed, GM interfaces and interacts with the most Divisions within EGU. This is reflected in the number and richness of co-organized sessions across the GM programme at the GA. This is a great GM strength, providing significant added value to the GA. Sustaining the volume, breadth and quality of contributions to the GA, and thus confirming EGU in a position at the forefront of geomorphological science globally, is clearly a key challenge for the future. A distinct challenge within this context is ensuring that the sessions at the GA, and other forum such as Galileo Meetings, find the right balance between breadth and distinctiveness, and thus remain at the cutting edge. This is something I have enjoyed been a part of as a Division Science Officer for the past two GA's and been proud of the program and success of sessions championed by the GM leadership. It has also been a great experience being involved as an AE in both the launch and evolution of the EGU Earth-Surface Dynamics journal. Its success, and award of an Impact Factor within 2 years, is testimony to the strength and investment of the GM Division membership.

The presidency of the GM division is an exciting challenge and is a position I would be honoured to serve. My aims in role would be to ensure that we continue to evolve a strategy around maintaining GM distinctiveness within broader union interactions, safeguarding a focus on serving Early Career Researchers and retaining an open and transparent leadership of the community.

Photo (max. 500 kb):

Prof Dan Parsons UNI-6729_EGU.jpg