Personal Details

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Name of Organisation:		UK Centre for Ecology & Hydrology
Name of Person:		Prof Bridget Anne EMMETT
Nationality:		British
Profession/specialisation:		Soil and Ecosystem Scientist
Position in organisation:		Principal Scientist
Specialisation in organisation:		Ecosystem science, soil health; climate change, air pollution, land
use, national and agri-environment monitoring; natural capital.		
Qualifications / Awards / Honours.		
ENDS 100 most influential environmental professional scientists 2024		
Officer of the Order of the British Empire (OBE) for Services to Soil and Ecosystem Sciences, 2023		
President, British Ecological Society, 2024 - 2026 March Award for Climate Change Bassarch, British Ecological Society, 2016		
Marsh Award for Climate Change Research, British Ecological Society, 2016 Fellow of the Learned Society of Wales, 2015		
Fellow of the British Society of Soil Science, 2015		
AGI Award for Geospatial Excellence (team award) 2014		
Fellow of the Royal Society of Biology, 2010		
Honorary Professorship, Bangor University, 2009		
PhD (Soil Ecology) University of Exeter 1990.		
Bachelor of Science (First Class Honours, Plant Science) University of Aberdeen 1985.		
Career Outline		
2024 -	Principal Scient	ist (Band 3[S])
2023 -	NERC Innovation in Environment Monitoring Assessment Panel	
2017 - 2023	UKCEH Head of Soils and Land Use (Band 3[S])	
2009 - 2017	CEH Science A	rea Lead for Soil &
		tt' Section (Band 3[S])
2008 - 2008	-	rector Biogeochemistry (Band 2 [S]) (6 months)
2004 - 2008		rector of Biogeochemistry
		tt' Section (Band 3[S])
2001 - 2022		I-Bangor – change of title to Head of Site from 2004 (Band 3[S])
2001 - 2004		EH Pollution Programme
1998 - 2001		ific Officer (Band 4 [S]O, Centre for Ecology and Hydrology (CEH - ormed from 4 NERC Institutes: ITE, IFE, IH and IVEM)
1994 - 1998	0	c Officer Band 5 [S], ITE Bangor
1994 - 1998 1988 - 1994		c Officer Band 6 [S], Institute of Terrestrial Ecology (ITE), Bangor
Selection of Membership of committees, boards etc.2024 – dateScientific Advisory Board, EU Integrated Research Infrastructure Services for Climate		
uuto	Change Risks (I	
2024 - date		ard Member for the EU Mission: 'A Soil Deal for Europe'
2022 - date		ology and Ecosystems Services Expert Panel
2022 - date		cal Society 'The Future of Ecological Research in the UK' Panel
2022 - date		al Society Welsh Policy Group
2022 - date		atory Monitoring Working Group
2022 - date		for Agricultural Landscape Research (ZALF), Germany Scientific
	Advisory Board	
2021 - date		ety's University Research Fellowship Scheme - Appointment Panel B
2021 - date	Rothamsted Res Board.	search - Board of Trustee-Directors and Science Advisory Group
2021 - date		rsity and Ecosystem Service in a Changing Climate (BECC) Scientific Swedish Government Strategic Research Initiative.
2019 - date	•	inuity Trust Board of Trustees
2019 - date	e	Management Board of uksoils
2017 - date		for Research on Ecology and Forestry Applications) International
	Scientific Comr	nittee, Spain.

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- 2017 date Sustainable Soils Alliance Scientific Advisory Board
- 2013 date UK Land Use, Land Use Change and Forestry Greenhouse Gas Inventory Steering Committee

Current Research Grants and Contracts:

- UKRI Land Use for Net Zero, People and Nature. PIs: L. Sutherland (JHI) and H Baltzer U Leicester). Lead Co-I for UKCEH and LUNZ Wales National Team. £638k to UKCEH. (Nov 23 Mar27)
- UKRI Greenhouse Gas Removal with UK agriculture via enhanced rock weathering. PI: David Beerling (Sheffield). One of several Co-Is: **B.Emmett (UKCEH)** (May 2021 Oct 2025) £910k to UKCEH.
- Welsh Government funded Environment and Rural Affairs Monitoring and Evaluation Programme (ERAMMP): PI: **B. Emmett (UKCEH)** (Oct 2022 – Sep 2032) £15,000,000. 24 organisations as subcontractors.

Other notable grants and contracts recently completed:

 Defra E.L.M Quality Impact Assessment of Land Management Interventions on Ecosystem Services. P.I.: B. Emmett. 8 other organisations as subcontractors. (UKCEH) (Sep 21 – Mar 23) £500k total for all partners.

Current Role and Research Areas

Bridget is a Principal Scientist at UK Centre for Ecology and Hydrology recently stepping down after 22 years on the UKCEH Management Board. Most recently this was as UKCEH's Science Area Head for Soils and Land Use (SLU). This involved leadership and management of more than 120 research staff and 40 postgraduate students across three UKCEH sites – Bangor, Lancaster and Wallingford. Bridget's personal policy-orientated research is wide ranging including: the impact of land management on natural capital and ecosystem services; drivers of change in soil structure, function and soil health; impacts of air pollution and climate change; and new knowledge and modelling systems to support policy development. Her fundamental research expertise has included exploration of the nitrogen cycle, carbon cycle, vegetation composition, water quality and greenhouse gas emissions and their integration at the ecosystem level.She has published over 190 papers and has an H index of 77/i10-index of 180 (Google scholar).

Bridget's current role is as PI/lead for projects involving a large number of partners to improve integration across different disciplines and sectors from catchment/landscape to national scale to improve the evidence base and support national policy development and outcome reporting in the areas of e.g. soil health, ecosystem services, agri-environment schemes and natural capital. Her research team is responsible for a large national-scale integrated monitoring and modelling programmes –ERAMMP (Wales <u>https://erammp.wales/en</u>) and she recently coordinated a large inter-disciplinary team of 46 experts from 11 organisations to review over 700 agri-environment actions being considered for inclusion in the England ELM agri-environment scheme across 33 ecosystem services and 53 outcomes indicators (<u>Evidence Assessment | UK Centre for Ecology & Hydrology (ceh.ac.uk)</u>. Income generation for her research has come from a wide range of funders including UKRI (NERC, BBSRC, EPSRC), DEFRA, Welsh Government, Environment Agency, SEPA, and the EU.

Bridget is a member of many national and international committees and science advisory panels. These include membership of the EU Mission Board on 'A Soil Deal for Europe' and the UK Land Use, Land Use Change and Forestry Greenhouse Gas Inventory Steering Committee. She is also a Trustee and Board member of Rothamsted Research and the Ecological Continuity Trust and serves on the Scientific Advisory Boards for research organisations in Germany, Spain and Sweden. Outreach activities include a founding member and Chair of the community initiative 'uksoils' which aims to create a community hub to inspire us all to learn more about soil and help build communities to take action to improve soil health https://uksoils.org/. She was also a member of the award winning team who developed the online community soil digital platform - the UK Soil Observatory https://www.ukso.org/ to improve community access to soil data and maps. Bridget co-authored and was the narrator of BBC Ideas/Royal Society animation film on "The wonders of Soil" https://www.bbc.co.uk/ideas/videos/why-soil-is-one-of-the-most-amazing-things-on-eart/p090cf64 and contributions to podcast and regular contribution to media articles and interviews regarding the importance of soil health.

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