

Dr ANDREW J MOFFAT,
BSc, PhD, DSc, FRGS, FISoilSci, MICFor

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PERSONAL PROFILE:

An internationally recognised scientific consultant on Sustainable Forest Management, Urban and Environmental Forestry, Forestry and Climate Change, Brownfield Land Restoration and Organic Waste Recycling with a background of over 30 years in the UK forestry sector. Key expertise in Strategic Review, Policy Development, Research, Advice and Guidance, Survey Design and Analysis, Project Delivery, Training, Assessment and Lecturing.

KEY SKILLS

Sector experience - worked in UK agriculture and forestry government departments for over 30 years; wide knowledge and experience of UK, European and international forestry and associated sectors.

Professional reputation – nationally and internationally recognised scientific expert on sustainable forest management, climate change and the natural environment, brownfield restoration, urban forestry and arboriculture, forest soils and environmental monitoring; extremely well networked across government departments, NGOs, university departments and the forestry industry.

Communications skills - well-developed written and verbal communication skills; extensive list of specialist and non-specialist publications (see Annex); track record of giving presentations to and leading workshops for a wide range of audiences, at home and abroad.

Project management - proven experience of initiating, directing, managing and contributing to science-based, policy-relevant research projects in the UK, Europe and internationally; have worked with many partner organisations (academic, governmental, NGO and industry), both in the UK and in Europe.

KEY CAREER ACHIEVEMENTS

Environmental Consultancy

- Successfully launched environmental forestry and arboricultural consultancy in 2013;
- Undertaken a wide range of projects for clients at home and abroad;
- Maintained commitment to scientific publication and communication.

Forestry

- As Head of Forestry and Climate Change in Forest Research until 2013 managed c. 50 staff with annual budget of £5.25 million;
- As member of Forest Research Executive Board managed forest environmental and tree health science at national level;
- Recognised as national and international authority in forest soil science, land reclamation and regeneration, urban forestry, forest monitoring, climate change risk and forest fires. Published extensively in these subjects;

- Provided scientific direction at highest level to support 'Forestry for Economic Regeneration', one of four major policy aims in English forestry in the last decade;
- Led UK scientific input into negotiating and drafting European legislation on forest monitoring (e.g. Forest Focus Regulation). Ensured maximum benefit and co-funding for British monitoring interests;
- Set up the archaeological and heritage research unit in Forest Research, helping to dissipate misunderstanding between forestry and archaeological sectors;
- Set up first comprehensive metadatabase of forest research data in Forest Research to ensure efficient access for colleagues and customers.

Wildfire Research

- Represents the UK on the European Commission Expert Group on Forest Fires;
- Has published widely on this subject, including social and health aspects;
- Co-operated with New Zealand in developing new systems for managing forest fire risk in the UK; has subsequently worked with all four UK administrations to deliver them;
- Member of the England and Wales Wildfire Forum.

Land Reclamation and Waste Recycling

- Authored government guidance on land reclamation and use of organic waste materials (sewage sludge, composts) in land reclamation. Led to step change in reclamation practice and vastly improved land after-uses following mineral extraction;
- Provided scientific understanding, guidance and built confidence for expansion of community forestry movement on derelict land, helping in many hundreds of hectares being reclaimed to beneficial use;
- Created urban and land reclamation research unit within Forest Research in 2000, showcasing expertise. Gained much influence in forestry / land reclamation sectors;
- Instrumental in change in government policy and practice in respect of landfill reclamation and post-closure management involving trees and woodlands, leading to many more trees being planted on restored landfills, enhancing landscape and natural habitat of these sites;
- Provided total reclamation solution for restoration of opencast coal tips for woodland. Helped credibility of coal industry to gain planning permission and to restore to beneficial after-use after mining was completed;
- Supported the water industry in testing the operational use of biosolids for land reclamation to woodland, and showed the value of their products;
- Elected as Chair of British Land Reclamation Society in 2013.

Urban Forestry

- Transformed urban forestry in Britain since its modern inception, providing high-level scientific and technical underpinning;
- Co-authored the first practical guidance on 'Urban Forestry Practice' in Britain;
- Principal Investigator of four workstreams in the EPSRC-funded 'Sustainable Urban Brownfield: Integrated Management (SUBR:IM)' project (2003-2007);
- Co-authored the 'Benefits of Green Infrastructure' report for Defra (2010).

Soil Science

- Strengthened the importance of soil protection in British forestry and helped UK to define its leadership in sustainable forest soil management; instigated and authored the first version of 'Forests and Soil Conservation Guidelines' published by the Forestry Commission.
- Published over 60 peer reviewed papers, articles and presentations on forest soils and their sustainability;
- Co-authored first regional Soil Survey for South-East England, laying foundation for regional soil knowledge and optimising land-use planning involving soil management;
- The instigator of, first Secretary and subsequent Chair of, South-east England Soils Discussion Group, the SE regional group of British Society of Soil Science, promoting scientific communication and soil science generally;

- Managed the development of Forest Research’s chemical laboratories diversification to include plant tissue, water and soil analysis. Delivered quality service to the Forestry Commission and the forestry sector.

Environmental and Climate Change Science

- Formed Centre for Forestry and Climate Change in 2009, the centre of excellence in climate change and tree health research. Highly regarded across forestry sector for its expertise and problem solving abilities;
- Wrote or co-authored influential reports for (a) Defra sponsored 2012 UK Climate Change Risk Assessment as forestry sector lead author, (b) the UK National Ecosystem Assessment in 2011, (c) the government Foresight report on Land Use Futures in 2010, and (d) the review of effects of climate change on soils for Defra in 2005.
- Played a prominent part in the delivery of climate change adaptation guidance for Scotland as part of ClimateXChange (<http://www.climatexchange.org.uk>)

Research and Knowledge Exchange

- A major income winner for Forest Research, building capacity and reputation, supporting jobs and delivering quality science; won significant funding from almost all of Defra ‘family’ of departments and agencies, DCLG, NERC and EPSRC, Scottish Government, Regional Development Agencies, water companies and the EU;
- A conspicuous author of books, papers, reports and web-based information, ensuring that quality research outputs reach as many people as possible;
- Conceived and set up first ‘Research Forest’ in Britain (in England), and led development of two others, in Wales and Scotland;
- Worked with research partners and collaborators at home and abroad. Headed UK National Focal Centre for Forest Monitoring as part of pan–European network from 1997-2013;
- Instigated development of economic research in Forest Research, helping to underpin forestry research with an economic rationale and promoting ability to work within ecosystem services framework;

CAREER HISTORY

Director, A J Moffat & Associates Ltd	2013-
Forest Research, Head of Environmental Research Branch, Environmental & Human Sciences Division, and Centre for Forestry and Climate Change (since 2009).	1997-2013
Forestry Commission Research Division; Project Leader	1985-1997
Soil Survey of England and Wales; Soil surveyor	1979-1985
University of Reading; Soil laboratory technician	1975-1976

PROFESSIONAL QUALICATIONS AND MEMBERSHIPS

- Fellow of Royal Geographical Society; Fellow of the British Society of Soil Science;
- Member and Chartered Consultant, Institute of Chartered Foresters;
- Associate Editor of *Soil Use and Management* scientific journal;
- B.Sc. Geography and Soil Science, University of Reading, 1975;
- Ph.D. Geography, University College London, 1980;
- D.Sc. University of Reading, 2005;
- Visiting Professor, School of Archaeology, Geography and Environmental Science, University of Reading, 2007-present.