

## Professor Jim Harris



Professor Jim Harris is a systems ecologist principally working in soil microbiology, restoration ecology and ecosystem service research focused on microbial ecology in relation to ecosystem processes. He has applied this particularly in the assessment and treatment of degraded systems, restoration ecology, quantitative assessment of ecosystem goods and services, and has pioneered work on catabolic profiling and the thermodynamics of soil microbial communities. This work has advanced our understanding of the effects of environmental and management practices on the soil microbial community, provided better tools for assessing ecosystem status, the effects of land management and importantly restoration programmes aimed at enhancing natural capital to achieve net environmental gain. The work has been funded by, NERC, BBSRC and EPSRC, local and central government, and industrial clients.

His work on defining and assessing soil health via measurement of biological, physical and chemical properties has been widely adopted. He has worked extensively at national and international level in policy development: he has acted as Scientific Adviser to the UK Defra group at IPBES meetings in Colombia, Rome, and Bonn; a Lead Author in the IPBES Report on Land Degradation and Restoration; and past Chair of the International Society for Ecological Restoration.

## Elizabeth Stockdale



Elizabeth Stockdale is the Head of Farming Systems and Agronomy Research at NIAB and has over 25 years' experience of research and knowledge exchange in soil management, nutrient cycling and environment impact.

She currently leads the AHDB-BBRO funded Soil Biology and Soil Health Partnership which is developing practical on-farm tools for monitoring.

View Elizabeth's profile on NIAB:

<https://www.niab.com/about/people/dr-elizabeth-stockdale>

## Professor Dr. Matthias C. Rillig



Professor Dr. Matthias C. Rillig is a Professor of Ecology at Freie Universität Berlin, and director of the Berlin-Brandenburg Institute of Advanced Biodiversity Research.

Matthias studied his undergraduate degrees at the Universität Kaiserslautern, Germany, and the University of Edinburgh. He went on to complete a PhD in Ecology at the University of California Davis/ San Diego State University followed by a postdoc at the Carnegie Institution of Washington, Department of Plant Biology, Stanford.

Matthias' interests are in soil biodiversity, especially fungi, and the effects of drivers of global change on soils.

<https://rilliglab.org/people/matthias-rillig/>

## Felicity Crotty



Dr Felicity Crotty has been researching soil biology and soil health for the last twelve years.

Felicity joined the Royal Agricultural University as a Lecturer in Soil Science and Ecology in 2018. She is a soil ecologist working with the aim of promoting soil health and sustainable agriculture and is particularly interested in investigating how agricultural management affects soil quality, focusing on soil biology (earthworms, springtails, mites and nematodes), physics (compaction and water infiltration) and chemistry (N, P, K and other nutrients). Through combining her expertise in all three areas of soil science she is trying to disentangle the real impact different management strategies have on soil health and farming sustainably.

Felicity has current projects investigating the use of AI to identify earthworm casts, linking soil biology to agricultural management and monetising soil health.

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# Dr. Rattan Lal



Dr. Rattan Lal, Ph.D., is a Distinguished University Professor of Soil Science and Director of the CFAES Dr. Rattan Lal Carbon Management and Sequestration Center at The Ohio State University, as well as an Adjunct Professor of University of Iceland and the Indian Agricultural Research Institute (IARI), India. He received a B.S. from Punjab Agricultural University, Ludhiana, India (1963); M.S. from Indian Agricultural Research Institute, New Delhi, India (1965); and Ph.D. from the Ohio State University, Columbus, Ohio (1968). He served as Sr. Research Fellow with the University of Sydney, Australia (1968-69), Soil Physicist at IITA, Ibadan, Nigeria (1970-87), and Professor of Soil Science at OSU (1987 to date).

His research interests include soil carbon sequestration for food and climate security, conservation agriculture, soil health, principles and practices of soil erosion control, soil structure and carbon dynamics, eco-intensification of agroecosystems, soil restoration, the fate of soil carbon transported by soil erosion, and sustainable management of world soils.

Prof. Lal is Editor-In-Chief of *Advances in Soil Science* and of the *Encyclopaedia of Soil Sciences*. He was the Speaker for Summer 2019 commencement, and TEDx speaker for the Ohio State University in 2021. He has authored/co-authored over 1,000 refereed journal articles and more than 550 book chapters, has written and edited/co-edited more than 100 books. Prof. Lal has cumulative citation index of 120,000 and h-index of 164. He was included in the Thomson Reuters list of the World's Most Influential Scientific Minds (2014-2016), and he is among Clarivate's Highly Cited Researchers in Agriculture (2014-2020), as well as ranked #111 globally and #1 in Agriculture and Agronomy among the top 2% of scientists by Ioannidis et al. (2019, 2020). He has received an Honoris Causa degree from nine universities in Europe (Norway, Moldova, Germany, Spain), USA, South America (Chile) and Asia (India); the Medal of Honor from UIMP, Santander, Spain (2018); the Distinguished Service Medal of IUSS (2018); and is fellow of the five professional societies.

Dr. Lal has mentored 112 graduate students, 54 postdoctoral researchers and 181 visiting scholars from around the world. He was President of the World Association of Soil and Water Conservation (1987-1990), International Soil and Tillage Research Organization (1988-1991), Soil Science Society of America (2006-2008), and the International Union of Soil Sciences (2017-2018). He holds a Chair in Soil Science and Goodwill Ambassador for Sustainability Issues for the Inter-American Institute for Cooperation on Agriculture (IICA), Costa Rica, and member of the 2021 United Nations Food Security Summit Science Committee and Action Tracks 1 and 3 Committees.

Dr. Lal is laureate of the GCHERA World Agriculture Prize (2018), Glinka World Soil Prize (2018), Japan Prize (2019), U.S. Awasthi IFFCO Prize of India (2019), Arrell Global Food Innovation Award of Canada (2020), World Food Prize (2020), and Padma Shri Award (2021) of the Government of India.

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