

Prof. Dr. Georg Cadisch is currently full Professor at the section Plant Production in the Tropics & Subtropics and head of the Institute of Agricultural Sciences in the Tropics (Hans-Ruthenberg-Institute) at the University of Hohenheim, Stuttgart, Germany. His main research interests are nutrient cycling and carbon sequestration in tropical farming systems including in tropical agroforestry systems. As special focus has been on nitrogen fixation in legumes and their impact on soil fertility and soil organic matter dynamics. Recent studies included climate change impact on soil-plant production systems as well as soil quality and degradation. Stable isotope (^{15}N , ^{13}C and ^{18}O , SIP-DNA, CSSI) and infrared spectroscopy (DRIFT-MIRS, Py-MIRS) methods are frequently used and further developed to obtain a better insight into ecosystem processes. A further main focus is the development of an integrated spatially explicit and dynamic land use change impact assessment modelling platform (LUCIA) where soil-crop-tree-watershed submodels are effectively linked to assess trade-offs between different ecosystem services. Recently LUCIA has been furthermore linked to animal and agent-based socio-economic approaches. He has experiences in Brazil, Colombia, Ethiopia, Indonesia, Cameroon, Kenya, Mexico, Nicaragua, Philippines, Southern China, Thailand, Uganda, Vietnam, Zimbabwe.