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Education: MSc Geoscience 1995; PhD Historical Geology & Palaeontology 2000.

Research areas:

I am currently involved as a project leader in a research programme called “Energy effective production of burned carbonates (Lime and Dolime)”. This project partly funded by Swedish Energy department and partly by the Lime Industry focuses on the thermal deterioration of carbonates when subjected to CO₂ loss in the burning process. The question is whether or not it is possible to predict how the carbonate rock will behave when burned. Will it be intact as one piece, or will it fall apart into fine fractions? This is important for especially the steel industry, since fines are considered a waste product. Some carbonate rocks are impossible to burn while others work very well. The problem is that there is no knowledge on why carbonate rocks behave differently.

Apart from industrial carbonate research I am also involved in my old research project on tabular reef structures aka biostromes. Here I work with researchers from mainly Great Britain and Estonia on the biostromal reefs of Gotland and elsewhere. Research include all aspects, sedimentology, depositional history, diagenesis and ecology.
