

INDEPENDENT GEOCHEMICAL MODELLING & TECHNICAL ADVICE

Complex geochemistry. *Clear decisions.*

Dr Peter Wade provides specialist modelling, independent review and scientific interpretation for water–rock interaction, mine waste, industrial chemistry and carbon removal.

01

Independent technical review

Challenge the assumptions, examine the evidence and identify the questions that could change the conclusion.

02

Hydrogeochemical modelling

Investigate speciation, mineral saturation and water–rock interaction with transparent modelling and interpretation.

03

Reactive-transport support

Develop, interrogate and interpret reactive-transport models without losing sight of the conceptual system.

04

Mine waste & remediation

Examine the chemistry behind tailings, mine-affected water, contaminant movement and remediation decisions.

05

MRV & uncertainty

Review observability, sampling design and uncertainty in enhanced-weathering and carbon-removal studies.

06

Training & mentoring

Strengthen model interpretation, geochemical reasoning and the communication of scientific findings.

Start with a defined question.

Begin with a defined review, modelling task, employment role or paid scientific assignment. For a project, agree the evidence and scope, examine the assumptions and identify what can be concluded. Outputs, fees and timescales are agreed in writing.

SCIENTIFIC BACKGROUND · UPDATED 28 SEPTEMBER 2026

Dr Peter Wade

International research chemist and geochemist with more than four decades of experience across academia, applied research and industry, integrating laboratory science, field evidence and modelling.

PHREEQC · PHAST · VS2DRT · R · Vensim · PROFILE · FORSAFE

Documented contributions

Soil and reactive-transport model development

Sheffield attributes soil-column and one-dimensional reactive-transport models to Peter; national-scale work is credited collaboratively.

Sheffield: 2016–2019 research · 2019–2021 research

Industrial aqueous speciation

A 1999 titanium-recovery paper acknowledges Peter's speciation modelling. This is technical acknowledgement, not co-authorship.

Hydrometallurgy · titanium recovery, Part 1

Recent co-authored papers

APPLIED GEOCHEMISTRY · 2026

Steel-slag weathering, reactive transport and mineralisation.

doi.org/10.1016/j.apgeochem.2026.106863

CAMBRIDGE PRISMS: CARBON TECHNOLOGIES · 2026

SATuration–Centrifugation for porewater extraction.

Peter's credited contribution: writing, review and editing.

doi.org/10.1017/cat.2026.10011

FRONTIERS IN CLIMATE · 2025

Field-trial porewater and potential carbon-removal quantification.

Peter's credited contribution: formal analysis and review/editing.

doi.org/10.3389/fclim.2025.1606574

Research and report dates are not employment dates. Historical work is not a record of contracts delivered by this practice. Titles above are topic summaries; full titles and author records are available through the links.
