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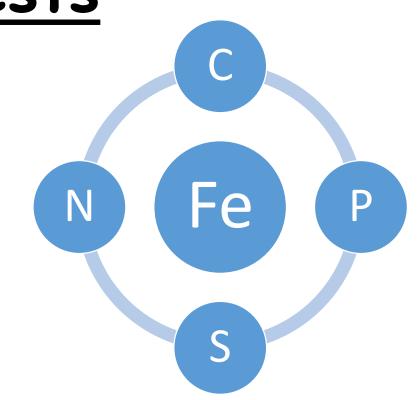
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STIRLING

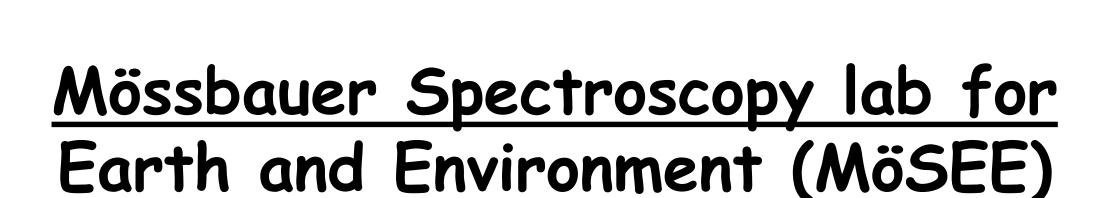


Research Interests

The (bio)geochemical iron cycle and how it is linked to the cycling of other elements such as carbon, nitrogen, sulphur or phosphorus.



Cross-fertilisation between the environmental sciences and planetary exploration





Conventional Mössbauer Spectroscopy Synchrotronbased Mössbauer Applications



Field-)Portable Mössbauer Spectroscopy



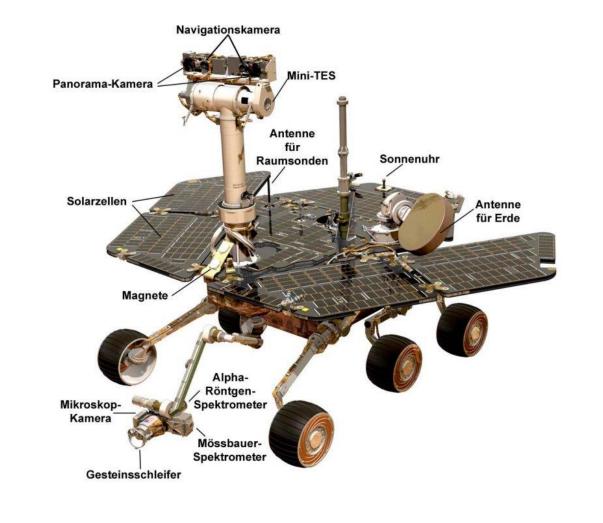
More info on Mössbauer spectroscopy (free to download):

- Gütlich, Schröder, Schünemann: Mössbauer spectroscopy an indespensable too in solid state research. Spectroscopy Europe 24 (2012) 21-32
- Schröder: Mössbauer spectroscopy in astrobiology. Spectroscopy Europe 27 (2012) 10-13

Current Projects and Initiatives

Mars Exploration Rover Science & Operations:

Follow-the-water and assess past suitability forlife.



Topical Team Geobiology in Space Exploration:

Microbe-mineral interactions in the robotic and human exploration of space



Space Exploration Advisory Sample Return Working Group

Geo Rep Net

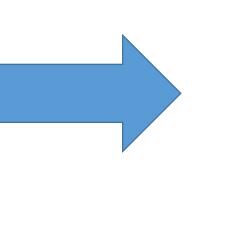
STFC-funded initiative for cross-transfer of technology from the space and astronomical communities into geological repository (CO2, nuclear waste) monitoring



Marine Alliance for Science and Technology for Scotland

Linking carbon and iron cycles by investigating transport, fate and mineralogy of iron-bearing colloids from peat-draining rivers - Scotland as model for high-latitude rivers











SAMS

