

[J] Poster | B (Biogeosciences) | B-GM Geomicrobiology

[B-GM02]Rock-Bio Interactions and its Applications

Mon. May 23, 2022 5:15 PM - 6:45 PM Exhibition Hall 8

Advances in research on the deep biosphere have revealed microbial ecosystems comparable to those at near-surface settings. The exploration targeting extant life and the traces of the past life (biosignatures) in rocks has expanded from Earth to the Martian sphere, while exploration and life-detection technologies are being developed. Regarding the interaction between atmosphere-water-rock/mineral-life, research has been conducted from various perspectives such as processes at the atomic and molecular levels, phenomena on the regional fluid flow scale, the action of creating rocks, and their responses in environmental changes. These studies are also important for solving problems such as energy and mineral resources, the global environment, and disasters. This session invites a wide range of basic research on "small life that adapts to rocks" and applied research to utilize its evolved power for the future.

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Poster