

## Special Issue

# Permafrost and Glaciers: Perspectives for the Earth and Planetary Sciences

### Message from the Guest Editors

Permafrost and glaciers are the most important components of the cryosphere. Their mutual relationship has only recently become the subject of interdisciplinary research. I would like to invite you especially to compare the mentioned elements of the Earth's cryosphere with the cryospheres of other celestial bodies of our solar system. I invite authors both at the beginning of their careers and with rich scientific experience to confront these opinions. Issues that may encourage authors to prepare original statements may be presented as follows:

- Is the position of A. Washburn (USA) 1973 that "*glaciers that have a temperature not reaching 0 °C are permafrost by definition*" still valid?
- Is the position of A. P. Shumskii (USSR) 1964 on the petrology of ice still important to us?
- Is the relation between glacier and permafrost a material, geophysical, or other issue?
- Is it possible to have permafrost under a glacier? Cryotic state vs. pressure melting point.
- Snowball-earth: frozen or glaciated?
- Extraterrestrial analogs: Europa icy-lithosphere and sea-ice of the Arctic ocean—how do we compare and understand each of these?
- Any other relevant issue.

### Guest Editors

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### Deadline for manuscript submissions

closed (10 July 2020)



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## About the Journal

### Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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### Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,  
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