

## Special Issue

# Future Advances in Basin Modeling: Suggestions from Current Observations, Analyses, and Simulations

### Message from the Guest Editors

The overall goal of this Special Issue of *Geosciences* is to present basin observation and modelling advances and their applications. While hydrocarbon generation potential remains critical, many of today's oil and gas fields are structurally complex, and new geophysical methods are providing much better images of these structures and fluid movements through them. In some areas glacial loading and unloading have influenced the petroleum systems. More sophisticated basin analysis and modeling methods are needed to incorporate and synthesize knowledge, ideas, and observations in a way that increases exploration effectiveness. This Special Issue aims to provide an outlet for rapid, widely accessible publications of peer-reviewed studies in advances of basin observations and modelling in petroleum exploration. It aims to cover a wide spectrum of topics from new methods of observation to 1D, 2D and 3D basin modelling, in conventional as well as unconventional petroleum resource systems.

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### Guest Editors

Dr. Willy Fjeldskaar

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### Deadline for manuscript submissions

closed (31 August 2019)



## Geosciences

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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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