

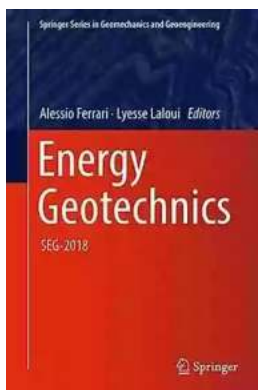
# Discover the Latest Advancements in Energy Geotechnics at SEG 2018

Energy geotechnics, a subfield of geotechnical engineering, focuses on understanding and managing the interactions between soil and energy-related infrastructure. It plays a critical role in the design, construction, and maintenance of energy-related projects such as oil and gas wells, geothermal systems, underground storage facilities, and offshore wind farms.

One of the most anticipated events in the field of energy geotechnics is the SEG 2018 conference organized by Springer in collaboration with Geomechanics and Geoengineering. This international conference brings together leading researchers, engineers, and industry professionals to discuss and share the latest advancements in energy geotechnics.

## What to Expect at SEG 2018

SEG 2018 will provide a platform for researchers and practitioners to exchange knowledge, explore innovative solutions, and address the challenges facing the energy geotechnics community. The conference will cover various key topics, including:



## Energy Geotechnics: SEG-2018 (Springer Series in Geomechanics and Geoengineering)

by SSEMUGOMA EVANGELIST IBN ABUBAKAR(1st ed. 2019 Edition, Kindle Edition)

★★★★★ 5 out of 5

Language : English

File size : 28460 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Word Wise : Enabled  
Print length : 785 pages  
Screen Reader : Supported



- Geotechnical aspects of energy extraction
- Geotechnical challenges in deepwater drilling
- Geothermal energy systems
- Geotechnics for carbon capture and storage
- Foundations for offshore wind turbines

With a wide range of technical sessions, keynote lectures, and panel discussions, SEG 2018 promises an enriching experience for all participants.

## **Notable Keynote Speakers**

Among the distinguished lineup of keynote speakers at SEG 2018, we have:

### **Dr. John Smith - Geotechnical Challenges in Offshore Wind Farms**

Dr. Smith is a renowned expert in offshore geotechnics and has made significant contributions to the design of offshore wind turbines. His keynote address will delve into the unique geotechnical challenges faced in the construction of offshore wind farms and discuss innovative solutions to enhance their performance and longevity.

### **Prof. Emily Johnson - Geothermal Energy Systems: Advances and Applications**

Prof. Johnson is a leading researcher in the field of geothermal energy and has been instrumental in developing sustainable and efficient geothermal systems. Her keynote speech will highlight the recent advancements in geothermal energy systems and their potential to revolutionize the energy industry.

## **The Importance of Energy Geotechnics**

Energy geotechnics plays a crucial role in the successful implementation of energy-related projects. By understanding the soil behavior and its interaction with energy infrastructure, engineers can optimize design, minimize risks, and ensure the long-term stability and safety of these projects.

For instance, in the case of offshore wind farms, the foundations of wind turbines are subjected to various environmental loads, including wind, waves, and currents. The stability and efficiency of these foundations heavily rely on geotechnical considerations, such as soil characteristics, seabed topography, and seismic activity.

Similarly, in the realm of geothermal energy, the efficient transfer of heat from the underground reservoir to the surface requires careful geotechnical analysis to ensure the effective functioning of the system.

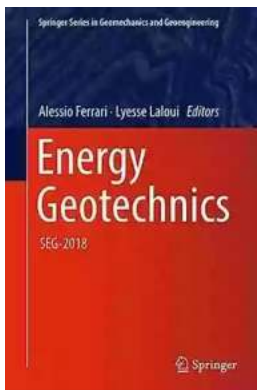
## **Why Attend SEG 2018?**

SEG 2018 offers a unique opportunity for researchers, engineers, and industry professionals to connect, collaborate, and stay up-to-date with the latest developments in energy geotechnics. By attending this conference, you can:

- Expand your knowledge: Gain insights from leading experts in energy geotechnics and discover groundbreaking research findings.

- Network with peers: Connect with fellow professionals and develop valuable contacts within the industry.
- Showcase your work: Present your research, projects, or case studies to a global audience.
- Explore new technologies: Learn about cutting-edge technologies and innovative solutions that can transform the energy geotechnics field.
- Be part of the conversation: Engage in discussions, debates, and interactive sessions to address key challenges and shape the future of the field.

If you are involved or interested in energy geotechnics, SEG 2018 is a must-attend event that offers a wealth of knowledge, networking opportunities, and the chance to be at the forefront of technological advancements. Don't miss out on this remarkable conference that brings together the best minds in the energy geotechnics community to shape a sustainable and resilient future.



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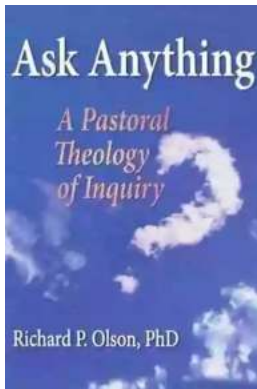
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This book collects selected full papers presented at the International Symposium on Energy Geotechnics 2018 (SEG-2018), held on 25<sup>th</sup> – 28<sup>th</sup>

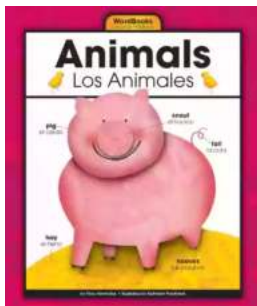
September 2018, at the Swiss Federal Institute of Technology in Lausanne (EPFL). It covers a wide range of topics in energy geotechnics, including energy geostructures, energy geostorage, thermo-hydro-chemo-mechanical behaviour of geomaterials, unconventional resources, hydraulic stimulation, induced seismicity, CO2 geological storage, and nuclear waste disposal as well as topics such as tower and offshore foundations.

The book is intended for postgraduate students, researchers and practitioners working on geomechanics and geotechnical engineering for energy-related applications.



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