



東京大学大学院工学系研究科エネルギー・資源フロンティアセンター  
環境調和型エネルギー資源開発工学 (JX 日鉱日石開発) 寄付講座

# Stanford University Roland N. Horne教授 特別講演会

日時：平成 27 年 10 月 30 日 (金) 15:00 ~ 17:00 (受付開始 14:45)

場所：東京大学工学部 3 号館 2 階 31 号講義室  
(東京都文京区本郷 7-3-1 本郷キャンパス)

\* Web 申し込みフォームよりご登録下さい (<http://www.frцер.t.u-tokyo.ac.jp/>)。定員 100 名に達し次第締め切らせていただきます。

## “World Outlook for Geothermal Energy, and the Technologies that Will Be Needed to Achieve It”

講演者：Roland N. Horne  
(Thomas Davies Barrow Professor of  
Earth Sciences, Stanford University)



### 概要：

The past ten years have brought considerable changes to geothermal development. Historically high oil prices since 2005 focused attention on renewable energy, supported by a global ambition to address greenhouse gas reduction. Geothermal developments have accelerated in many parts of the world, both in countries (such as New Zealand, Turkey, Kenya, Indonesia and the US) that have a traditional interest in "conventional" geothermal resources, as well as countries without a historical interest in geothermal energy (such as France and Germany). Some new developments have followed well-worn paths using conventional hydrothermal resources in volcanic regions, while others have struck out in new directions in Enhanced Geothermal System (EGS) projects in nonvolcanic regions. Technology has allowed for developments of conventional resources with lower temperature, restricted water access, and constrained surface utilization. EGS projects have launched in a variety of different directions and places.

In this context, the future expansion of geothermal developments depends on exploring for new fields and overcoming technical challenges in known but not-yet-exploited fields. Longer term expansion will require the development of reliable EGS development procedures that can ensure sustainable flow rates and assure the public that induced seismicity will not be a problem.

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