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Seismicity Associated with Mines, Reservoirs and Fluid Injections

**Edited by
Shahriar Talebi**

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Seismicity Associated with Mines, Reservoirs and Fluid Injections Shahriar Talebi, 2011-09-28 This volume contains 18 papers from 8 countries dealing with different aspects of triggered and induced seismicity In situ observations of the phenomenon include examples of seismicity due to reservoirs hard rock mines coal mines mine collapses brine production caverns fluid injections and geothermal hot dry rock projects High frequency acoustic emission studies from laboratory experiments and hard rock mines have also been reported Besides providing case studies of previously unavailable observations of seismicity the present volume contains investigations of the causes and source mechanism of seismic events determination of source parameters seismic hazard as related to the design of support systems for underground openings and procedures for closure of brine production caverns and the use of seismic and non destructive techniques in assessing rock damage measuring dynamic elastic moduli and detecting discontinuities This collection of papers provides an excellent indication of the state of the art recent developments and outstanding challenges facing scientists and engineers in understanding the causes and alleviating the effects of induced seismicity

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Enhanced Geothermal Systems (EGS)
Dornadula Chandrasekharam, Alper Baba, 2023-10-02 Peter Meisen Past President Global Energy Network Institute asked in 1997 What if there was an existing viable technology that when developed to its highest potential could increase everyone's standard of living cut fossil fuel demand and the resultant pollution After 23 years of sustained effort by the global scientific community this is becoming a reality The technology to extract heat from granite has been revolutionized in the last few years The classical method of creating fracture networks by hydrofracturing is being replaced by a closed loop method where fluids are not in contact with the hot granite Supercritical CO₂ is replacing water as a circulating fluid Certainly the future energy road is going to be led by highly radiogenic granites While hydrothermal sources are site specific and have their limitations EGS can be initiated anywhere on earth EGS is removing all such obstacles and in the future will provide uninterrupted electricity for all Energy deficient countries can have surplus electricity water stressed countries can have a perennial freshwater supply and countries can become food secure and rise above poverty levels Countries need not depend on energy imports and can independently evolve into carbon neutral or low carbon societies The contributions made by experts will help researchers and investors to close the energy demand and supply gap in the very near future by tapping the unlimited energy of the Earth Opportunities available for investors in Turkey are well documented with field geophysical and geochemical data and information on the energy generating capacity of the granite intrusive spread over a cumulative area of 6 910 km² in western Anatolia With the signing of the Global Geothermal Alliance GGA by several countries during the December 2015 CoP 21 Conference of Parties summit in Paris countries are obliged to reduce CO₂ emissions by increasing the footprint of renewable energy in the primary source mix Information provided in this book will lead the way to establishing a clean energy future for millions of people for sustainable development and help to mitigate crises arising due to food water and energy shortage issues Academic and research institutes will benefit to a large extent from the expertise of the top contributors in this book This information provided in this book will help to lay the foundation for super hot EGS research in future

Seismicity Caused by Mines, Fluid Injections, Reservoirs, and Oil Extraction Shahriar Talebi, 2012-12-06 The perturbation of the earth by mankind causes earthquakes in a variety of situations This phenomenon continues to be a major concern to engineers and scientists concerned with the mitigation of the consequences of this seismicity as well as better understanding the processes at its origin The present volume contains twelve papers from six countries dealing with observations of triggered and induced seismicity in four continents The reported cases include seismicity due to hard rock mines coal mines underground research facilities for nuclear waste disposal water injections reservoirs aquifers and oil fields This volume provides case studies of previously unavailable observations of this

phenomenon investigations of the cause and source mechanism of seismic events studies of source location distributions determinations of seismic source parameters cases of the use of such parameters in assessing rockburst hazard in mines and measurements of velocity and attenuation properties of rock masses The present collection of papers provides an excellent indication of the current state of the art and new developments in this area of research *Geologica Belgica*, 2000

Forthcoming Books Rose Army, 1998-06 *Seismicity Caused By Mines, Fluid Injections, Reservoirs, and Oil Extraction* Shahriar Talebi, 1999 Reprint from Pure and Applied Geophysics PAGEOPH Volume 153 1998 No 1 *American Book Publishing Record Cumulative 1998* R R Bowker Publishing, 1999-03 *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen*, 1998 **Verzeichnis lieferbarer Bücher**, 2002 *Geodinamica Acta*, 1996 *Guide to Reprints 2007* K. G. Saur Editorial Staff, 2006-01-10 **Guide to Reprints**, 2007 **Das Schweizer Buch**, 1998 *Subject Guide to Books in Print*, 1991 *Seismicity in Mines* G. Gibowicz, 2012-12-06

Recent seismological research has focused on processes other than pure shear failure double couple as an alternative mechanism for some types of seismic events This has been stimulated by what appears to be anomalous focal mechanisms observed for several earthquakes of possible volcanic nature in the 1980 Mammoth Lakes California sequence JULIAN and SIPKIN 1985 SIPKIN 1986 Although studies have concentrated on earthquakes associated with magmatic processes possible non double couple seismic failure has been observed but not widely known in cases of mine seismicity in the past three decades Such cases have occurred on a world wide basis however no cases until now have been observed in the United States The existence of non double couple failure in mine seismicity has been controversial as it has been for tectonic volcanic earthquakes Several of the benchmark studies of mine seismicity in the deep South African gold mines have resulted in the belief that no fundamental distinction in the source mechanism exists between tectonic earthquakes and rock bursts MCGARR 1984 both types of events are the result of pure shear failure However the reported cases of implosional focal mechanisms for mine seismicity continue to increase in number and prolong the controversy During the summer of 1984 a three dimensional high resolution micro earthquake network was operated by Woodward Clyde Consultants WCC in the vicinity of two coal mines beneath Gentry Mountain in the eastern Wasatch Plateau of central Utah **Seismicity Caused by Mines, Fluid Injections, Reservoirs, and Oil Extraction** S. Talebi, **Induced Seismic Events** Peter Knoll, Georg Kowalle, 1996-07-30 Reprint from Pure and Applied Geophysics PAGEOPH Volume 147 1996 No 2 *Fluid-Induced Seismicity* Serge A. Shapiro, 2015-04-23 The characterisation of fluid transport properties of rocks is one of the most important yet difficult challenges of reservoir geophysics but is essential for optimal development of hydrocarbon and geothermal reservoirs This book provides a quantitative introduction to the underlying physics application interpretation and hazard aspects of fluid induced seismicity with a particular focus on its spatio temporal dynamics It presents many real data examples of microseismic monitoring of hydraulic fracturing at hydrocarbon fields and of stimulations of enhanced

geothermal systems The author also covers introductory aspects of linear elasticity and poroelasticity theory as well as elements of seismic rock physics and mechanics of earthquakes enabling readers to develop a comprehensive understanding of the field Fluid Induced Seismicity is a valuable reference for researchers and graduate students working in the fields of geophysics geology geomechanics and petrophysics and a practical guide for petroleum geoscientists and engineers working in the energy industry

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