Username:

HOME CONTACT My eBook



FULLTEXT SEARCH



NEW: Advanced Search

# **Periodicals:**

#### MSF

> Materials Science Forum

#### KEM

> Key Engineering Materials

# SSP

> Solid State Phenomena

#### DDF

> Defect and Diffusion Forum

## AMM

> Applied Mechanics and Materials

# AMR

> Advanced Materials Research AST

> Advances in Science and Technology

#### **JNano**R

> Journal of Nano Research

#### JBBTE

 Journal of Biomimetics, Biomaterials, and Tissue Engineering

#### JMNM

> Journal of Metastable and Nanocrystalline Materials

#### JERA

> International Journal of Engineering Research in Africa

#### AEF

> Advanced Engineering Forum

#### NH

> Nano Hybrids

> @ scientific.net

# CONFERENCE



Coupled THM Model and Simulation of the Yucca Mountain and F	
Journal	Advanced Materials Research (Volumes 33 - 3
Volume	Advances in Fracture and Materials Behavior
Edited by	Wei Yang, Mamtimin Geni, Tiejun Wang and Z
Pages	639-644
DOI	10.4028/www.scientific.net/AMR.33-37.639
Citation	Xiao Yan Liu et al., 2008, Advanced Materials
Online since	March, 2008
Authors	Xiao Yan Liu, Cheng Yuan Zhang, Quan Shen
Keywords	DECOVALEX, THM Coupled Simulation
Abstract	Task_D of the DECOVALEX_THMC project fo to 10,000 years) in two generic repositories, FI better understand the coupled THM processes set of generic coupled THM governing equatio according to given Task_D model inception ph are introduced into general simulation which m this practical models is developed and used in verified in the 3rd and 4th workshop of DECO\ different participant teams which enhances cor
Full Paper	Bet the full paper by clicking here

# First page example



## 11/16/2012 - 11/18/2012

11/13/2012 - 11/15/2012 The International Conference on Advanced Er 10/19/2012 - 10/21/2012 2012 International Conference on Vibration, S<sup>-</sup>

more...

Advanced Materials Research Vols, 33-37 (2008) pp 639-6 Online available since 2008/Mar/07 at www.scientific.net © (2008) Trans Tech Publications, Switzerland doi: 10.4028/www.scientific.net/AMR.33-37.639

# Coupled THM Model and Simula FEBEX Case Study within DI

Xiaoyan Liu<sup>1, a</sup>, Chengyuan Z

<sup>1</sup> State Key Laboratory of Geomechanics and Ge Mechanics, Chinese Academy of

"liuxy@whrsm.ac.cn, bzhangcy@

Keywords: DECOVALEX; THM coupled simulat

Abstract. Task\_D of the DECOVALEX\_THMC1 coupled processes(up to 10,000 years) in two gend Project type for comparison. To better understand the system behavior, we have introduced a set of 1 on these equations, we develop simplified models request. Boiling model and empirical bentor simulation which makes model more practical. C models is developed and used in two BMT case s verified in the 3rd and 4th workshop of DECOV2 with results of different participant teams which c processes.

# Introduction

This paper presents coupled thermal-hydrologi results for DECOVALEX-THMC, Task\_D, con Mechanics, the Chinese Academy of Sciences ( involve analysis of coupled THM processes in tw

③ Task\_D THM1: A generic repository locate tunnels are backfilled with buffer material (FEBE

② Task\_D THM2: A generic repository locat in open gas-filled tunnels (Yucca Mountain type).

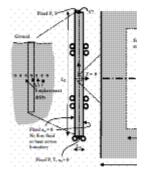


Fig. 1 Schematic general model geometry, bounda

The geometry chosen for the two repository s Fig. 1). To better understand the coupling THM prowe introduced a rigorous treatment of the the unsaturated porous media[4]. Each of the three independent continuum with four constituents

All rights reserved. No part of contents of this paper may be reproduced or to www.ltp.net. (ID: 114.249.142.214-21/12/11.02:40.39)