

The 14th International Symposium on Recent Advances  
in Exploration Geophysics (RAEG2010)

**PROGRAM**

November 4th (at 4th Floor : Forth Lecture Room)

13:30-13:35

**Opening**

*Toshifumi Matsuoka*

13:35-14:55

**Session 1:**

Availability of Fresnel volume migration to 3C-component seismic reflection data using tau-P transform

*Tetsuya Kawabayashi, Hitoshi Mikada, Tada-nori Goto and Junichi Takekawa*

Spiking deconvolution by means of Adaptive Simulated Annealing

*Ehsan Jamali Hondori*

CRS-stack method for improved seismic imaging: A case study for Median Tectonic Line

*Shohei Minato, Takeshi Tsuji, Toshifumi Matsuoka, Yoshihiko Ishikawa,  
Naoki Nishizaka, Yuki Ohno and Michiharu Ikeda*

A trial about the evaluation of compound geophysical explorations by self-organizing maps

*Tatsuru Yamamoto, Harushige Kusumi, Makoto Nakamura, Tsuyoshi Yamamoto  
and Takeshi Tsuji*

**Tea Break**

15:15-16:35

**Session 2:**

Deformation process of a geologic structure where two reverse faults intersect, insights from analogue model experiments

*Hiroki Miyamoto, Yasuhiro Yamada and Takafumi Ashida*

Surface and Subsurface Monitoring at oil field using synthetic aperture radar interferometry (InSAR)

*M. Yusup Nur Khakim, Takeshi Tsuji and Toshifumi Matsuoka*

The first report: modeling for the clogging effect of calcite precipitation on CO<sub>2</sub> sequestration

*Seung-youl Ryu, Yoshihiro Kuroda, Yoshitada Mito, Akira Ueda and Toshifumi Matsuoka*

Sonic velocities in gas-bearing formation water and their variations due to resonant response of bubble walls to acoustic waves

*Takahito Banno, Hitoshi Mikada, Tada-nori Goto, Junichi Takekawa and Kyosuke Onishi*

16:40-17:50

**Poster Session.**

(poster lists attached to the later part of program)

18:00-18:10

**Group Photo**

at the Entrance of Campus Plaza Kyoto.

18:30-20:30

**Conference Dinner**

at the restaurant in “APA Hotel Kyoto Station Horikawa Street.”

November 5<sup>th</sup> (at 2nd Floor : Hall)

9:30-10:50

**Session 3:**

Development of hard- and software of microseismic for geothermal exploration and monitoring:  
first results

*Rachmat Sule, David P. Sahara, Yosep Kusnadi, Adrianto W. Kusumo, Andri D. Nugraha,  
Tedy Setiawan, Sri Widiyantoro and Toshifumi Matsuoka*

Application of self-potential measurements to reservoir engineering<sup>†</sup>

*Tsuneo Ishido*

Self-potential signals associated with hydrological data for understanding the groundwater flow  
system in Saijo Plain, Ehime, Western Japan<sup>†</sup>

*Fatma Hachani, Maki Tsujimura, Tada-nori Goto, Yusuke Ozaki, Yuki Tosaki  
and Minoru Tokumasu*

Hydrothermal system in an arc volcano: estimation of permeability, and reactive- transport  
modeling<sup>†</sup>

*Yoshifumi Kawada*

**Tea Break**

11:10-12:30

**Session 4:**

Heat flow estimated from BSR distribution and thermal conductivity in IODP NanTroSEIZE  
boreholes in the Nankai Trough forearc slope region off Kumano<sup>†</sup>

*Masataka Kinoshita, Gregory Moore and Yukari Kido*

Simulation of tsunami propagation with space-varying seafloor topography

*Tomoya Ohata, Hitoshi Mikada, Tada-nori Goto and Junichi Takekawa*

Relationship between Coda-Q and loaded stress

*Kyosuke Okamoto, Hitoshi Mikada, Tada-nori Goto and Junichi Takekawa*

Monitoring the plate boundary in Tokai area using ACROSS

-Role of Toyohashi ACROSS source-<sup>†</sup>

*Toshiki Watanabe, Koshun Yamaoka, Kenji Yamazaki and Yuri Suzuki*

12:30-12:35

**Closing**

*Hitoshi Mikada*

<sup>†</sup> =invited presentations

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## Poster Sessions (9 posters)

Presented at the evening on Nov. 4th (16:40-17:50)

2-D velocity and structural modeling of the Southeastern Korean offshore using OBS wide-angle data

*Byoung-yeop Kim, Ho-young Lee, Young-jun Kim, Nam-hyung Koo, Dong-geun Yoo and Joong-moo Byun*

Detailed processing and analysis on the single-channel seismic data for site survey of subsea tunnel of Korea

*Wonsik Kim, Keunpil Park, Hyundo Kim, Snons Cheong, Namhyung Koo, Hoyoung Lee and Euseob Park*

Numerical simulation of magma plumbing system associated with the eruption at the Showa crater of Sakurajima inferred from ground deformation

*Soma Minami, Masato Iguchi, Hitoshi Mikada, Tada-nori Goto and Junichi Takekawa*

Experimental study for effect of salinity on generating conditions of CO<sub>2</sub> microbubbles

*Tatsuya Yamada, Ziqiu Xue and Toshifumi Matsuoka, Hiromichi Kameyama and Susumu Nishio*

Mechanisms for the negative thermal expansion and elastic anomalies of  $\beta$ -quartz

*Mia Ledyastuti, Yunfeng Liang and Toshifumi Matsuoka*

Two-phase lattice Boltzmann simulation of seismic stimulation for mobilization of trapped oil

*Hirotsu Yamabe and Toshifumi Matsuoka*

Long-Term Repeated Electrical Surveys for the Monitoring of Temperature and Water Content in the Unsaturated Zone<sup>†</sup>

*Shinichi Takakura, Yuji Nishi, Mituhiko Sugihara and Tsuneo Ishido*

Marine controlled-source electromagnetic sounding on submarine massive sulphides using 2.5-D simulation

*Naoto Imamura, Tada-nori Goto, Junichi Takekawa and Hitoshi Mikada*

Effect of heterogeneity of hydraulic conductivity on streaming potential

*Yusuke Ozaki, Hitoshi Mikada, Tada-nori Goto, Junichi Takekawa, Maki Tsujimura and Fatma Hachani*

<sup>†</sup> =invited presentations

The RAEG2010 is organized by:

- Environment & Resource System Engineering Lab. and Energy Resources Engineering Lab., Dept. of Urban Management, Kyoto University
- Geophysics Lab., Dept. of Civil and Earth Resources Engineering, Kyoto University
- Geo-Environmental Lab., Dept. of Civil & Environmental and Applied System Engineering, Kansai University

Co-organized by:

- Geosystem Research Institute
- Environment Energy Forestry Agriculture Network (EEFA)

Supported by:

- Society of Exploration Geophysicists of Japan (SEGJ)

Fees:

- Registration including a proceeding: JPY3,000  
\* The registration fees for invited speakers are FREE.
- Party: JPY5,000

Note for Authors:

Oral Presentation

- 15 min for Oral Presentation, 5min for Questions and Comments
- A Windows PC for slide show (PowerPoint 2003) is prepared.  
Please copy your PPT file to the PC at tea break or before beginning your session via your USB memory card or your CD-ROM. Note that the version of your Power Point. Please save the PPT file with the format for PowerPoint 2003.
- Your own PC can be available for your presentation.

Poster Presentation

- Core time: November 4th, 16:40-17:50 @ Forth Lecture Room
- Posters can be presented through the symposium.
- Size of poster board = W 85cm, L 120cm (Maximum)