

the 11th International Symposium on
Recent Advances in Exploration Geophysics in Kyoto
(RAEG2007)

April 15-16, 2007

Clock Tower Centennial Hall, Kyoto University, Japan

PROGRAM

----- 4/15 (Sun) -----

9:30

Open registration

10:00 - 10:05

Opening address (Prof.Y.Ashida (Kyoto University))

Simulation and Wave Propagation (Chair: H.Mikada, K.Onishi)

10:05 - 10:25

**2D and 3D simulation of elastic wave propagation by using Element
Free Galerkin's Method**

*Masafumi Katou, Toshifumi Matsuoka, Hitoshi Mikada, Yoshinori
Sanada and Yuzuru Ashida*

10:25 - 10:45

**Numerical simulation of rock test for engineering properties using
Mesh-free method**

Junichi Takekawa, Yasuhiro Yamada, Hitoshi Mikada and Yuzuru Ashida

10:45 - 11:05

Seismic Wave Simulation based on Method of Characteristics

Kazuya Shiraishi and Toshifumi Matsuoka

11:05 - 11:25

Core-Log-Seismic Integration in the Athabasca Oil Sands Area, Canada

Akihisa Takahashi

11:25 - 11:45

**Laboratory experiments of seismic wave propagation in random
heterogeneous media**

Osamu Nishizawa

Keynote Lecture (Chair: T.Matsuoka)

- 13:00-13:50 **EM Methods for Exploration Geophysics at Berkeley**
Prof. Ki-Ha Lee (Lawrence Berkeley National Laboratory)
- 14:10-15:00 **The Essence of Phase in Signal Processing**
Prof. Tadeusz J. Ulrych (University of British Columbia)

SEG 2007 Regional Lecture (Chair: T.Matsuoka)

- 15:30-17:00 **Recent Advances in Borehole Geophysics Applications**
Dr. Steve Chang (Schlumberger)
- 17:00 - 17:30 **Poster session**
- 17:30 - 19:00 **Banquet**

----- 4/16 (Mon) -----

Radar (Chair: Y.Sanada)

- 9:30 - 9:50 **Imaging underground structures by microwave remote sensing**
Kyosuke Onishi, Katsuya Yamamoto, Yasuhiro Yamada and Toshifumi Matsuoka
- 9:50 - 10:10 **Ground Penetrating Radar for Pipe Locating**
Masaki Kishi, Takaharu Nakauchi and Hideki Hayakawa
- 10:10 - 10:30 **GPR surveys at the field polluted by mineral oil spill**
Toshiyuki Yokota, Yuji Mitsuhata, Toshihiro Uchida and Takeshi Komai

Electromagnetic (Chair: T.Nakauchi)

- 10:45 - 11:05 **Electrical and electromagnetic investigations of sericite veins in a hydrothermal deposit**
Shinichi Takakura, Hiroyasu Murakami, Koji Nakada, Takeharu Takahashi, Tateyuki Negi and Minoru Teshima
- 11:05 - 11:25 **Feasibility Study of Marine Controlled-Source Electromagnetic for Gas Hydrate**
Kazunobu Yamane, Tatsuo Saeki and Takao Inamori
- 11:25 - 11:45 **Subsurface Imaging Using Small-Loop Electromagnetic Method**
Yutaka Sasaki, Jeong-Sul Son, Changryol Kim, and Jung-Ho Kim

Seismic (Chair: T.Yokota)

- 13:00 - 13:20 **Geological interpretation of the northern part of the Kumano basin using 3D reflection seismic data**
Tatsuo Saeki, Takao Inamori, Sadao Nagakubo, Sumito Morita and Osamu Takano
- 13:20 - 13:40 **Temporal change in reflected waves from deep crust possibly synchronized with the activity of DLFTs detected using ACROSS**
Toshiki Watanabe, Tomoyuki Soma Ryoya Ikuta and Koshun Yamaoka
- 13:40 - 14:00 **Evaluation of AVO attributes derived from Angle sub stacks**
Roy Tada and Yasutaka Ichie

Geoengineering (Chair: T.Saeki)

- 14:20 - 14:40 **Analysis of Pressure Interference and Tracer Testing Data in a Fractured Geothermal Reservoir: Uenotai Geothermal field, Japan**
Shinsuke Nakao, Tsuneo Ishido and Yoshinobu Takahashi

- 14:40 - 15:00 **Seismic Feature of Topology of Shelf-Slope-Trough and its
Geo-engineering Applications, the West Arafura Sea, Indonesia and
Northern Australia**
Hiromi Honda and Hiroyuki Tokunaga
- 15:00 - 15:20 **3D simulation analysis of sliding failure of rock slope by DEM**
Satoshi Ohtsuki, Harushige Kusumi and Toshifumi Matsuoka
- 15:20 - 15:40 **An Extended Stress Tensor Inversion Method for Incomplete Fault-slip
Data - Potential Application to Faults Imaged in 3-D Seismic Explorations**
Katsushi Sato
- 15:40 - 15:45 **Closing address (Prof.T.Matsuoka (Kyoto University))**