The 4th International Symposium on Recent Advances in Exploration Geophysics in Kyoto (RAEG'99)

December 15, 1999

Siran Kaikan, Kyoto, Japan

PROGRAM

Wednesday, December 15.

10:50~11:00 **Opening Address**

Yuzuru Ashida (Kyoto University, Japan)

Seismic Method (11:00~12:00)

Chair: Toshiki Watanabe (Kyoto University, Japan)

11:00~11:20 **Radiation of strong ground motion from various fault types**

Takao Kagawa (Geo-Research Institute, Japan)

11:20~11:40 **Imaging of refraction boundary using convolution product**

Toshifumi Matsuoka (Kyoto University, Japan)

11:40~12:00 **Introduction of the 'Advanced Seismic Imaging Technology' project for oil exploration**

Masami Hato*, Nobuyuki Shimizu** and Yoshinari Nakajima*** (*Japan Petroleum Exploration Co. Ltd., Japan, **JGI, Inc., Japan, ***Japan National Oil Corporation, Japan)

Lunch (12:00~13:20)

Seismic Modeling and Inversion (13:20~15:00)

Chair: Nobuyuki Shimizu (JGI, Inc., Japan)

13:20~13:40 **Full wave inverion in frequency-domain**

Shin'ichi Uesaka (Kansai Research Institute, Japan)

13:40~14:00 **A simple method to incorporate correlation information into the inversion process in full-wave tomography**

Terumitsu Tsuchiya (DIA Consultants Co., Ltd., Japan)

14:00~14:20 **Robust tomography using wide-band Fresnel zone wavepath**

Bagus. E. B. Nurhandoko (Kyoto University, Japan)

14:20~14:40 **Traveltime-based raytracing for reflection waves**

Eiichi Asakawa and Nobuyuki Shimizu (JGI, Inc., Japan)

14:40~15:00 **Viscoelastic finite-difference modeling with application to shallow seismic refraction data**

Koichi Hayashi (OYO Corporation, Japan)

Coffee Break (15:00~15:20)

Fracture and Electromagnetic Method (15:20~17:00)

Chair: Toshifumi Matsuoka (Kyoto University, Japan)

15:20~15:40 **Acoustic tapping survey for cavities using wavelet transform signal analysis**

Fumio Watanabe and Keichi Kasahara (Nippon Geophysical Prospecting Co. Ltd., Japan)

15:40~16:00 **Fracture analysis in the Nojima fault from FMI images**

Tsutomu Kiguchi, Hisao Ito, Yasuto Kuwahara and Tomoyuki Ohtani (Geological Survey of Japan, Japan)

16:00~16:20 **Fracture zone imaging by using radar tomography —Numerical study by the gradient method—**

Yoshinori Sanada, Toshifumi Matsuoka, Keisuke Yamamoto and Yuzuru Ashida (Kyoto University, Japan)

16:20~16:40 **Three-dimensional magnetotelluric analysis for Kakkonda geothermal field**

Kazunobu Yamane*, Kazumi Osato* and Kazuo Koide** (*Geothermal Energy Research and Development Co., Ltd., Japan, **New Energy and Industrial Tchnology Development Organization, Japan)

16:40~17:00 **Visualization of the inversion results of 3-dimensional electromagnetic exploration method**

Yutaka Murakami (Geological Survey of Japan, Japan)

17:00~17:10 **Closing Remarks**

Toshifumi Matsuoka (Kyoto University, Japan)