L214-P003 Room: Poster Session Hall Time: May 28

## Design and Simulation of Resistivity Tomography for Monitoring of CO2 Sequestration in Coal Seams belongs to Yubari Formation

# Susumu Nishimura[1]; Ikuo Katsura[1]; Akira Jyomori[2]; Masao Nago[3]; Hironobu Komaki[3]

[1] NPO ThinkTank Kyoto Institute of Natural History; [2] Neo Science; [3] The General Environmental Technos Co. LTD.

The  $CO_2$  sequestration in coal seams project has been proceeded on schedule from 2003. to 2008 at Kawaminami area of Minami-Oyuubari, Yubari City. In this project, we could not established the monitoring to detect behavior of  $CO_2$  gas injected in coal-bed, except using some high-precisioon tiltmeter.

It is designed resistivity tomography for monitoring of the behavior of injected CO<sub>2</sub> in coal bed in the project of CO<sub>2</sub> sequestration in coal seams. In this case, it is designed a electorode system using a plastic casing in monitoring and production bore holes. A resistivity measurements system is also designed.

It is not yet used in the field, but simulated by computed method using physical characters of Ishikari coal bed. This designed system is one example of a practical application of the  $CO_2$  sequestration project.