

## Development of CO<sub>2</sub> Sending Method for Geological Storage in Lake Sediments -2 - Sedimentary Basins contain Water-soluble Methane

# Susumu Nishimura[1], Ikuo Katsura[1], Junichi Nishida[2], Tatsuya Yajima[3]

[1] NPO ThinkTank Kyoto Institute of Natural History, [2] Faculty of Literature, Otani Univ, [3] Research Institute of Innovative Technology for the Earth

Outline of the Study on Development of CO<sub>2</sub> Sending Method for Geological Storage in Lake Sediments was presented at the last year meeting. We have been started from September, 2002, the project on survey of the structure of sedimentary basins contain water-soluble methane.

We have been reinvestigated the springs contain water-soluble methane. According these results, we have been selected four springs for sampling around Lake Biwa. On the other hand, we have been resurveyed sedimentary basins along shores of Moriyama and Kusatsu Cities and of north side of Adogawa River of Lake Biwa.

From these two sites, we are selected the lake shore at Shin-Asahi Town for the drilling site. We will sampling some cores and ground- water by the drilling, to identify and to cultivate the methanogenic bacteria.

It is estimated that thick sediments contain water-soluble methane stratum around lake-shore at Shin-Asahi, using the gravity survey and seismic reflection method. It is found the area of artesian flow and of anaerobic bacteria around the lake shore at Shin-Asahi Town.