**L062-003** Room: IM2 Time: May 29 14:06-14:24

## High precision 14C dating of Lake Baikal sediments with AMS

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In 1996-1997, a new-generation Tandetron AMS 14C system, built by HVEE, B.V., was installed at Nagoya Univ. After the successful performance tests of the spectrometer, we can now conduct 14C measurements of archeological and geological samples with one sigma error of around +/-20 - +/-30 years. In 2001, high precision 14C ages have been obtained for more than 1000 samples to establish a reliable chronology of paleoenvironmental changes. This new AMS system has been applied for 14C dating of the cored sediments from Lake Baikal and Lake Khubusgul, by using total organic materials extracted from the lake sediments. Some results will be discussed here.