



Miyakawa Dam and Telemeter Monitoring System in the Control Office

**Client: Agriculture and Forestry Office in Aizu Region Fukushima Prefectural Government Case Study: Dam Facilities at Miyakawa Land Improvement District**

To prevent flood disaster, three dams and one water-level gaging station had been constructed over 20 years since 1950's in Miyakawa Land Improvement District located 100km west from the 2011 March earthquake-stricken area. Since 2005 we have been involved in modernization project of facilities in the four sites; Miyakawa Dam, Futamata Dam, Tochizawa Dam and Shinyashiki-shinden Station. We have just completed three projects except meteorological instruments and dam divergence for Miyakawa.

Our portion of work includes the data management of water level, leakage water level, discharge volume, hydraulic grade line, gate opening, earthquake and meteorological parameters such as wind speed and direction, temperature, humidity, barometric pressure and rainfall. When the facilities for Miyakawa will be renewed in the coming period, measured data will be transmitted to the central data center via optical fiber and remotely monitored in a more effective way. Our disaster prevention technology helps maximize people's safety.



Scene of the Ceremony and the Certificate of Thanks

**A Letter of Thanks Given to Meisei Electric by the Contribution for Super-High-Speed Internet Satellite "KIZUNA" !**

On the 22nd June, a "Basic Experiment end Completion Meeting" for the Super-High-Speed Internet satellite "KIZUNA" was held in JAXA Tsukuba Space Center, and at the ceremony a certificate of thanks was conferred on us.

Meisei Electric successfully took clear pictures of the moon by the high vision camera installed on the moon orbiting satellite "KAGUYA". The 3 units of satellite monitor camera were also installed on the "KIZUNA" transmitting the deployment of the solar battery paddles and receiver antennas to the grounds. For the contribution of the monitor cameras, Mr. Tanimoto, Deputy Director received the certificate of thanks from Mr. Tachikawa, President of JAXA as shown herein. Due to these successes Meisei Electric's monitor cameras were installed on the Green Gas Observation Satellite "IBUKI" and Quasi-Zenith Satellite "MICHIBIKI" as well.



Facilities Tour by the Celebration Participants and Outlook of XFEL Detector

**Reading Electronic Circuit for XFEL Detector Developed and Manufactured for RIKEN !**

The XFEL completed and was attached to the synchrotron radiation research SPring-8 of RIKEN Harima Institute (Hyogo Prefecture). It is nicknamed "SACLA". At the XFEL, MPCCD (Multi-port CCD) is used as the main detector. Meisei Electric was in charge of the development and manufacturing of the reading electron circuit of this detector. The X-rays emitted from electron beam hit the inspection piece and the X-rays dispersed are detected. Using the dispersion X-rays, it enables to watch atomic structure of the protein and other nanoscale structure. Specifically, it will be able to be made use for development of the new medicine of the intractable disease including cancer and AIDS.

The reading electron circuit, which Meisei Electric has developed, consists of multi channels high speed CCD reading circuit acquiring an X-ray image at the speed of 60 per second according to the technology of low noise CCD electron circuit established through its Space observation instrument.

In the experimental use, it has succeeded in the photography of the X-ray space profile and will be in operation from the end of 2011. After the celebration party held in August, we have received a thanks letter addressed to our President from Manager Ishikawa of RIKEN Harima Institute.

FROM UNDERWATER TO OUTERSPACE

Meisei Electric aims at the "World's Total Solutions Provider" covering from underwater toouterspace under the theme of "Contributing towards Human and Social Rich Environment" by the full use of advanced technology.