



Seminar on Risk Analysis of infrastructures

Lecture Title:

Systematic approaches and risk management for a better control of the safety and the availability of aging infrastructures: needs and benefits for civil and industrial infrastructures

Invited Lecturer:

Dr. Bruno Gérard
Chairman & CEO OXAND S.A., France



Date: Oct. 3, 2008 (Fri.)

Time: 15:30~17:00

Venue: Theater lecture room at Research & Project Building in Saitama University

Abstract:

Maintenance cost increases with ageing of infrastructures. More and more owners ask for methodologies allowing them to prioritize their decisions. This lecture develops a risk management strategy for civil infrastructures which allow to mix expert knowledge with field data (inspections, measures, etc.). Through industrial applications (dam safety, large bridge applications, marine structures, tunnel, etc.), it is shown that expertise develops according to a risk analysis process can offer a powerful tool for owners. Conclusions are proposed in terms of research needs. Moreover, recommendations for the development of new educational programs are proposed to prepare future managers to include risk management in their civil engineering skills.

Dr. Bruno Gérard & Oxand S.A.:

Dr. Bruno Gérard has studied calcium leaching of concrete for stability of nuclear power plants at Laval University, Canada. After receiving his Ph.D. at Laval University, he worked in Ecole Normale Supérieure de Cachan as Associate Professor. In 2003, he established Oxand S.A. to consult the risk management for aging civil infrastructures and has been working as its chairman & CEO. Oxand has grown remarkably due to their expert consulting and developed an extensive international branch network comprising countries such as Switzerland, Canada and Netherland. Oxand has dealt with nuclear infrastructures, harbor structures, oil & gas infrastructures, CO₂ storage and other aging infrastructures with their own simulation models named SIMEO™. They provide the design for sustainability such as monitoring and inspection, finance plan for maintenance and risk analysis. Further information can be found in Oxand HP(<http://www.oxand.com>).