

## Lectures on Smart Material based on precious metals

The Embassy of Japan in South Africa organized two lectures at the University of Pretoria and the University of Cape Town on October 31 and November 1, 2012 in coordination with these universities.

The lecture was conducted by Professor Hideki Hosoda from the Precision and Intelligence Laboratory, Tokyo Institute of Technology. Material science is one research area in which Japan leads the world. Professor Hosoda introduced the characteristics of smart materials and their applications for industrial use, such as automatic temperature adjustable shower head, automatic air ventilation apparatus which can be used for buildings, superelastic brace wires and medical application for operations.

Professor Hosoda's presentation included the demonstration of a tool which used shape memory alloy wire which reacts to high temperature. There were active interactions between Professor Hosoda and the audience on potential industrial application opportunities of the mineral deposit existing in South Africa.



Demonstration of the device used shape memory alloys at the University of Pretoria on October 31, 2012

Lecture at the University of Cape Town on November 1, 2012

