
The 14th KONA Award

The 14th KONA Award sponsored by Hosokawa Powder Technology Foundation and given to the scientists or groups who have achieved excellence in the researches related to the basic powder technology, was presented to Professor Jusuke Hidaka of Doshisha University and to Professor Shuji Hanada of Tohoku University by Masuo Hosokawa, President of the Foundation on January 26, 2005 at the R&D Center of Hosokawa Micron Corporation in Hirakata, Osaka Prefecture.

Prof. Hidaka received his M.S. and Ph.D in Chemical Engineering from Doshisha University in 1972 and 1989. After he worked as a researcher at Showa Denko Co. Ltd., 1972 to 1976, he joined Doshisha University and became a full professor in 1990. The major focus of his current research work is to establish the design method of functional materials related to particles by using computer simulation. He has proposed a new method to design the microstructure of polycrystalline BaTiO₃ ceramics based on the mathematical model which represents the relation between

the microstructure of BaTiO₃ ceramics and dielectric or piezoelectric characteristics. The KONA Award was given to his achievement on the development of design method of functional ceramics and powder industrial processes to produce precisely the microstructure of the ceramics using computer simulation.

Prof. Hanada graduated from Graduate School of Engineering (Materials Science), Tohoku University, and received a Ph.D degree in 1971. Then he worked at Institute for Materials Research (IMR), Tohoku University, and became a full professor in 1987 at IMR. His major research activities have been novel powder processing for advanced functional materials such as porous, biocompatible Ti alloys with low elastic modulus close to that of human cortical bone and very high temperature structural materials based on Mo/silicide and Nb/silicide in-situ composites with good oxidation resistance. He has revealed a hydrogen pulverization mechanism of Nb and Ta and their alloys. The KONA Award was given to his such a remarkable achievement.



Prof. Hidaka



Prof. Hanada