In association with the Dept. of Crop & Soil Sciences, the Dept. of Fine Arts, and the Asia Program

3rd Annual Campbell Lecture in Environmental Soil and Water Science

Part II.

Study on Conservation of Cultural Properties in Asia

Dr. Takeshi Ishizaki

Dr. Takeshi Ishizaki is Director of the Department of Conservation Science, National Research Institute for Cultural Properties, Tokyo. He is an adjunct Professor of Preventive Conservation in the Graduate Program of Tokyo National University of Fine Arts and Music. He has been doing research into the deterioration of stone monuments and brick buildings as well as murals and tumulus. He graduated from the Department of Geophysics of HokkaidoUniversity and obtained a doctoral degree studying the mechanism of frost heave phenomena.

November 14, 2005

6:30pm reception
7:00-8:00pm lecture

Rm. 203,
Smith Center
for Undergraduate
Education

Many Asian historic brick buildings and monuments suffer from surface deterioration due to salt efflorescence and microorganisms. Water vaporizes on the surface of brick buildings at the beginning of the dry season and water is induced to flow out from the drying surface and salt crystallizes near the surface. This crystallization pressure is known to cause severe damage to the brick. In order to develop protective measures, it is quite important to know the water flow in brick buildings and monuments. In Asian countries, there are many important mural paintings in temples and in tumulus and we are doing research into protective measures for preserving them. For this purpose, it is important to monitor the moisture and thermal regime around the tumulus and moisture and thermal properties of the soil of the mound. Dr. Ishizaki will talk about his basic studies for the conservation of cultural properties in Asian countries.

Campbell Lecture: Dr. Gaylon Campbell spent nearly 30 years as a professor of Environmental Biophysics and Soil Physics in the Crop and Soil Science Department at WSU. In 1998, he retired from the university to become the Vice President of Engineering at Decagon Devices, a local manufacturer of biophysical research instrumentation.

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