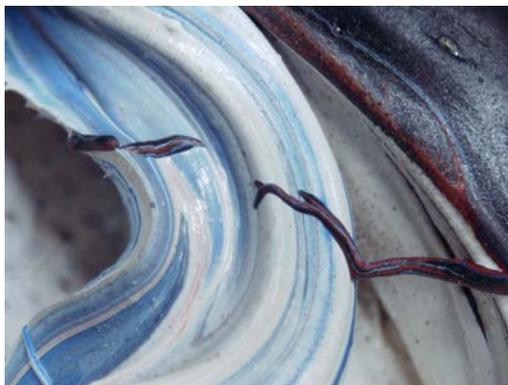


## Lecture and Demonstration: Developing Portable Stands to Convert Digital Microscopes into a Routine Tool for the In-situ Research of Paintings and Sculpture



**Jaap J. Boon, Ph.D.**  
**Art Scientist and CEO of JAAP Enterprise for Art Scientific Studies**

Few laboratory microscopes are suitable for the surface examination of paintings and other art objects. The size of paintings and morphology of sculptures pose a problem for microscopy systems in a fixed location or with limited physical access. The development of portable stand systems that allow precise X, Y, Z-positioning of the microscope tube (coupled with an attached high-resolution camera) has opened new opportunities for analysis. This talk will provide examples of 3D microscopes mounted on stands designed by Dr. Boon for the study of a wide range of artwork. The transport and mounting of the stands will be discussed, as well as options for the flexible positioning of artwork during examination.

**This lecture is open to the public. Demonstration of a portable stand suitable for air transport, and outfitted with a Hirox Model KH-8700 3D digital microscope, will take place in collections storage before and after the lecture. A limited number of spaces are available for the demonstrations but must be reserved in advance. If you have questions or would like to inquire about space in the demonstration, please contact MCI Paintings Conservator Dr. Dawn Rogala at [RogalaD@si.edu](mailto:RogalaD@si.edu).**

Dr. Boon has 25 years of experience using spectroscopic techniques to investigate painting materials and paintings through the University of Amsterdam and the Netherlands Organisation for Scientific Research (NWO), including the Molecular Aspects of Ageing in Art (MOLART) and De Mayerne Programme projects. Through JAAP Enterprise for Art Scientific Studies, Dr. Boon has carried out collaborative research on historical and modern artworks at institutions including Tate Modern London, Statens Museum for Kunst, Kunst Historisches Museum Vienna, Mauritshuis Den Haag, Rijksmuseum Amsterdam, Staatlichen Gemaelde Sammlungen Berlin, National Museum of Norway, and Munch museum. The demonstration microscope set up is generously provided by HIROX USA.

# MCI

## *Topics in Museum Conservation*

**May 19, 2015**  
**1:45 pm**  
**Tuesday**

*MCI Theater*

MUSEUM SUPPORT CENTER

4210 Silver Hill Road  
Suitland, MD 20746

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