



## HORNEMANN INSTITUTE

CENTER FOR THE PRESERVATION OF WORLD CULTURAL HERITAGE

Online Course

### **Microbial Infestation of Objects of Art and Cultural Heritage**

The idea of offering online training courses came from the wish to provide training independent of time and place. We estimate it will take about 15 to 20 hours to do the course (depending naturally on a participant's previous knowledge and study habits). The timeframe of the entire course allows learning while working, e. g. studying at night and at weekend with no time pressure.

Important: These courses are solely online courses.

#### **Contents**

Essentially the courses are divided into modules. This allows judging the scope and content of the courses to help estimate the time and work involved.

- The first one is an introduction into microbiology. It allows students with no corresponding background to learn the basics of microbiology and thus to be able to follow the course. This is of particular importance for non-university implementation, as microbiology in the conservation of cultural objects has not been pursued much outside the university.
- The second module, which is smaller, is more practice oriented: it explains the different sample-taking techniques and which types of sample material are suited for which analyses and tests.
- The third module contains various methods of detection and analyses of microorganisms that pose a threat to cultural objects. The user learns not only easy to use analyses techniques but also very specific and modern specialist ones.

Moreover, the course provides a reading list, an extensive glossary and links to other internet sites on the same topics.

The course should rather explain you the possibilities of you available sources. Our aim is to enable you first to decide which method will be effective and to decide afterwards whichever equipment or procedure is needed.

If you decide to participate the course you can do the registration at our website.

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#### **Organisation**

On the first day, you will receive an email with the course's internet address and your user identification.

Take time to familiarize yourself with the design and functions of the course. Of course, there is a site with instructions and aids.

You will have access to all the contents of the course from the beginning. It is up to you to plan the time within the course's term of eight weeks. The course also includes learning checks to allow you to check their progress themselves.

The final examination will be online as well. The test for the scientific courses consists of 20 multiple-choice questions. You will have a whole week to do the test. Anyone who has a test score of at least 75% will receive a certificate from the Hornemann Institute.

#### **Technical Information**

In addition to internet access, you will need a browser to use the course. Best suited is the Microsoft Internet Explorer Version 5.0 and upgrades. However, other browser like FireFox e. g. will work as well. In order to be able to see the entire course content, you need to activate Java Script in your browser.

If you wish to participate in a forum, you need to allow installing cookies.

#### **Communication**

The course is designed in such a manner that the students can do it in self-study, working independently and at their own pace. There is no tutoring in the sense of "And now you have to do this." During clearance, you have unlimited access to the course sites. But of course you are not alone! You always can send me questions about the course topics. I will answer you directly or - for special microbiology questions - together with Prof. Dr. Petersen, the second author of the course. Additionally I will assist you if you need technical support or in case of problems with the dates e. g.