WORKSHOP PROGRAMME

DAY 1 • 26 SEPT

09h15 Welcome Session - António Candeias

09h30

09h30 Chemistry of selected organic materials used in cultural 10h30 heritage artefacts: Cristina Barrocas Dias

Overview of the history and chemistry of selected natural organic materials analysed during the practical sessions of the workshop

10h30 **Coffee Break**

11h00 Chemistry of selected synthetic polymers: Ester Ferreira

12h00

Overview of the history and chemistry of the synthetic polymers analysed during the practical session of the workshop

12h00 13h00

Mass spectrometry: Helena Florêncio

13h00 Lunch in Vimioso Palace

Vimioso Palace, Room 205

14h30 Py-GC-MS for the analysis of cultural heritage materials:

Klaas Jan van den Berg and Henk van Keulen 15h30

SPME-GC-MS for the analysis of cultural heritage materials: 15h30

Christopher Maines 16h30

In addition to an overview of SPME, the lecture will concentrate on the analysis of exhibition and storage materials intended for use in close proximity to or in contact with cultural heritage materials.

16h30 **Coffee Break**

17h00 Visit to HERCULES Laboratory

18h00

DAY 2 • **27 SEPT**

(Participants divided into two groups)

Hands-on session on the analysis by Py-GC-MS of natural and synthetic materials with/without derivatization by TMAH.

Hands-on session of SPME-GC-MS analysis of exhibition and storage materials used with cultural heritage artefacts.

Main Instructors

HERCULES Laboratory

Ana Manhita, Dora Teixeira, Henk van Keulen and Michael Schilling

Mitra Campus

Maria Ioão Cabrita, Marco Gomes da Silva and Christopher Maines

HERCULES Laboratory / Mitra Campus

Group 1: Practical session Py-GC-MS (HERCULES Laboratory) 09h00 12h30

Group 2: Practical session SPME-GC-MS (Mitra Campus)

Coffee Break: mid morning

12h30 **Lunch in Mitra Campus**

14h00 Group 2: Practical session (HERCULES Laboratory) Py-GC-MS

Group 1: Practical session SPME-GC-MS (Mitra Campus) 17h30

Coffee Break: mid afternoon

DAY 3 • 30 SEPT

Fórum Eugénio de Almeida, Auditorium

(the same of the Meeting)

(This session is included in the workshop and open to some additional participants that have already pre-registered)

09h00 General use of AMDIS and Excel for data treatment: Michael

Schilling and Henk van Keulen 11h00

11h00 Coffee Break

General use of AMDIS and Excel for data treatment: Michael 11h30

Schilling and Henk van Keulen 13h00

Lunch in Colégio do Espírito Santo 13h00

Colégio do Espírito Santo

(Participants divided into two groups)

Data treatment of the Py-GC-MS and SPME-GC-MS analysis done during the hands-on session of the workshop.

14h30

Group 1: ESCAPE for natural paint media and coatings: Henk

van Keulen 16h00

Group 2: ESCAPE for synthetic paint media: Michael Schilling

16h00 **Coffee Break**

Group 2: ESCAPE for natural paint media and coatings: Henk 16h30

18h00

Group 1: ESCAPE for synthetic paint media: Michael Schilling