

# 8<sup>th</sup> MaSC Workshop and Meeting

26-30 September 2017

HERCULES Laboratory

University of Évora

## Workshop Day 1 – September 26<sup>th</sup>

### Session held in room 205 – Vimioso Palace

**9:15** – Welcome session: António Candeias

**9:30-10:30** – Chemistry of selected organic materials used in cultural heritage artefacts: Cristina Barrocas Dias

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

**10:30-11:00** – Coffee Break

**11:00-12:00** – Chemistry of selected synthetic polymers: Ester Ferreira

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

**12:00-13:00** – Mass spectrometry: Helena Florêncio

**13:00-14:30** – Lunch in Palácio do Vimioso

**14:30-15:30** – Py-GC-MS for the analysis of cultural heritage materials: Klaas Jan van den Berg and Henk van Keulen

**15:30-16:30** – SPME-GC-MS for the analysis of cultural heritage materials: Christopher Maines

*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.*

**16:30-17:00** – Coffee break

**17:00-18:00** – Visit to HERCULES Laboratory

## Workshop Day 2 – September 27<sup>th</sup>

### Sessions held in HERCULES Laboratory / Mitra Campus

(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 João Cabrita, Marco Gomes da Silva and Christopher Maines

**9:00-12:30** Group 1: Practical session Py-GC-MS (HERCULES Laboratory)

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

Coffee break: mid morning

**12:30-14:00** – Lunch in Mitra Campus

**14:00-17:30** Group 2: Practical session Py-GC-MS (HERCULES Laboratory)

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

Coffee break: mid afternoon

## Workshop Day 3 – September 30<sup>th</sup>

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

### Session held in conference room of FEA (the same of the Meeting)

**9:00-11:00** – General use of AMDIS and Excel for data treatment: Michael Schilling and Henk van Keulen

**11:00-11:30** – Coffee Break

**11:30-13:00** – General use of AMDIS and Excel for data treatment: Michael Schilling and Henk van Keulen

**13:00-14:30** – Lunch in Colégio Espírito Santo

### Session held in Colégio 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.*

**14:30-16:00** – Group 1: ESCAPE for natural paint media and coatings: Henk Van Keulen

Group 2: ESCAPE for synthetic paint media: Michael Schilling

**16:00-16:30** – Coffee break

**16:30-18:00** – Group 2: ESCAPE for natural paint media and coatings: Henk Van Keulen

Group 1: ESCAPE for synthetic paint media: Michael Schilling