

# 16<sup>th</sup> Masterclass



## Day 1

## Day 2

## Day 3

9.00 – 9.30	Reception   Welcome		Practical Session Discussion #1
9.30 – 12.30	<p><b>Lecture 1: Modern paints #1</b></p> <p>Modern and contemporary paints – options, use, properties and conservation issues</p> <ul style="list-style-type: none"> <li>• Use and history</li> <li>• Chemistry, general properties</li> <li>• Ageing and deterioration</li> <li>• Conservation issues</li> </ul>	<p><b>Lecture 3: Modern paints #3</b></p> <p>Oil-based modern paints – properties and conservation issues</p> <ul style="list-style-type: none"> <li>• Formulation</li> <li>• Chemistry, general properties</li> <li>• Ageing and deterioration</li> <li>• Water-sensitivity and conservation issues</li> </ul>	<p><b>Lecture 4:</b></p> <p>Advances and options for surface cleaning unvarnished painted surfaces</p> <ul style="list-style-type: none"> <li>• Aqueous systems</li> <li>• Solvent systems</li> <li>• Gels (aqueous, organo-); Peggy 5, 6</li> <li>• Microemulsions and phase diagrams</li> <li>• Evaluating cleaning systems - methods</li> <li>• Star diagrams</li> <li>• Other factors affecting cleaning</li> </ul>
12.30 – 14.00	LUNCH	LUNCH	LUNCH
14:00 – 17:00	<p><b>Lecture 2: Modern paints #2</b></p> <p>Acrylic paint surface cleaning research summary</p> <ul style="list-style-type: none"> <li>• Swelling</li> <li>• Extracted materials</li> <li>• Physical properties</li> <li>• Optical properties</li> <li>• Case studies.</li> <li>• Surfactant removal.</li> </ul>	<p><b>Practical Session 1</b></p> <ul style="list-style-type: none"> <li>• Introduction to the sessions and range of test samples</li> <li>• Surface examination of paint films; appearance, gloss etc</li> <li>• Physical tests: swelling, surfactant, surface conductivity, physical properties.</li> <li>• Using cleaning testing results tables; scales.</li> <li>• Cleaning with simple aqueous systems.</li> <li>• Cleaning with simple solvent-based systems.</li> </ul>	<p><b>Practical session 2</b> 14:00 – 16.30</p> <ul style="list-style-type: none"> <li>• Cleaning tests with microemulsions, gels and other options.</li> <li>• Making microemulsions.</li> <li>• Using solvent barriers</li> <li>• Exploring application methods.</li> </ul>
16:30-17.00			Summary of practical sessions and discussion.

