



ACRYLIC MODERN PAINTS CLEANING WORKSHOP

18 - 20 Settembre 2019

Programme

Tutor: Dr. Bronwyn Ormsby

Email: bronwyn_ormsby@hotmail.com/bronwyn.ormsby@tate.org.uk Principal Conservation Scientist, Tate, London

Assisted by: Dr. Angelica Bartoletti, New University of Lisbon, Portugal.

Day 1: Wed Sept 18, 2019

9.30 – 12.30 (with coffee break)

Lecture 1: modern paints: oils, alkyds, PVA, acrylics

- Use and history
- Chemistry, general properties
- Ageing and deterioration
- Conservation issues

12.30 – 14.00 Lunch

14.00 – 15.30

Lecture 2: Analysis and basic cleaning concepts

- Modern paints: summary of analysis approaches
- Cleaning concepts – aqueous cleaning

15.30 – 17.00

Practical Session 1:

- Introduction to the sessions and range of test samples
- Surface examination of paint films; appearance, gloss etc
- Swelling, migrated surfactant, surface conductivity, physical properties.
- Using test results tables/star diagrams

Day 2: Thurs Sept 19, 2019

09.30 – 12.30 (with coffee break)

Lecture 3: summary of acrylic paint cleaning research

- Swelling
- Extracted materials
- Physical properties
- Optical properties
- Surfactant removal

12.30– 14.00 Lunch

14.00 – 17.00

Practical Session 2:

- Cleaning with simple aqueous systems.
- Making adjusted waters (3 groups of 5)
- Cleaning with simple solvent systems – hydrocarbons, silicones
- Making microemulsions (3 groups of 5)
- Cleaning with W/O reverse microemulsions (pre-prepared)

Day 3: Fri Sept 20, 2019

09.30 – 12.30 (with coffee break)

Lecture 4: recent advances for surface cleaning unvarnished paint surfaces

- Aqueous systems (if not covered in 2)
- Solvent systems
- Gels (hydro-, organo-)
- Microemulsions
- Emulsions
- Application methods

12.30– 14.00 Lunch

14.00 – 16.30

Practical session 3:

- Discussion of practical session #2
- Cleaning with xanthan gum and xanthan emulsions
- Making silicone emulsions (3 x groups of 5)
- Using CSGI gels (demo)
- Cleaning using these systems

16.30 – 17.00

Summary of practical day and Q&A session