COSCH Training School

Testing easy accessible spatial and spectral imaging techniques: application to wall paintings documentation and conservation

07 – 04 - 2016

TEAM 2

Eryk Bunsch
Oana Silvia Comanescu
Sony George
Simona Sajeva
Anjo Weichbrodt
Objective of the investigations

• To expand the current knowledge about the execution techniques
• To verify the hypothesis of the use of metal leaf
Investigation Techniques

• **Anthony Pamart**: training in photogrammetry. Introduction to MicMac processing

• **Francesca Piqué**: training in macro technical photography

• **Christian Degrigny**: training in highlight – reflectance transformation imaging – H-RTI
COSCH Training School – Team 2

- **Anthony Pamart:**
  - Training in photogrammetry.
  - Acquisition of images
  - Introduction to MicMac processing
  - Visualisation of data

- **Location:** Dressing room
Motivation to use photogrammetry

• Helpful to describe areas in macro scales. In this case preparation of support (masonry surface)
• Geometry and dimension of the object
• To document the current state of conservation of the wall painting and its architectural context and communicate the information to others
Anthony Pamart: training in photogrammetry. Introduction to MicMac processing

- We started a photogrammetric survey in the dressing room, focusing on the introdxx of the arc of the entrance
- The intradox in cover with the green wall painting typically decorationg the private locations of Germolles
Image acquisition

- We used two cameras to compare the performance of two different sensors: SIGMA (3 layer sensor) and NIKON D800E fullframe
- Illuminants: Two controllable daylight sources
Results
Francesca Piqué: training in technical photography with the macro mode option

Location: Ancient bedroom – Actual corridor
Motivation

• To visualise the locations representing the original techniques applied and later conservation works
• Captured data provide the possibility to determine further the nature of some pigments in future
• To document the current state of conservation of the wall painting and communicate the information to others
Image acquisition and results

Visible

False colour

- **Location**: Bedroom
Motivation

• To investigate the stratigraphy and marks of execution
• To verify the hypothesis of the presence of gold leaf
• To document the current state of conservation communicate the information to others
Gilded Thistles
Conclusions

• Hypothesis is confirmed
• We used the JPEG format to limited the processing time
• We realised that the JPEG FINE would provide a better resolution for details
• Another campaign of H-RTI would precise the presence of remain of gold