News and views


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1. Introduction

Since they were first described by Mořic Trapp in 1861 many experts have speculated on the date of the Romanesque murals and the ducal rotunda of the church of St. Catherine in Znojmo. In this article I would like to present new discoveries regarding this question.

2. Methodology of field work

2.1 Investigation of the murals with ultraviolet and infrared light

A majority of outstanding questions related to the original appearance of the Romanesque murals in 1134, including the identification of later overpainting (from the 19th and 20th century), was clarified through this investigation.

Taking the murals in the dome of the apse, as an example, we can see on Trapp’s coloured drawing the condition of the murals in 1861 (Figure 1) – which is limited to singular body outlines. Let’s focus ourselves on what was discovered later by other experts, in relation to the first restorations of the paintings, and what can we actually see in the paintings today.

Thanks to the discovery of Melicher’s drawings, which were prepared for the restorative work on the murals in the rotund between 1891–1893, we know what the final appearance was after restoration. Melicher’s project is very well documented with a photo taken in 1895, by S. Vlk, a photographer from Znojmo. The restoration activities of František Fišer that followed were limited to local patches and conservation of some parts of the dome of the apse.

On Figure 2 we can see the present condition of the murals.

Since Melicher’s restoration in the apse was completed there have been many evaluations of the style, composition and iconography of the murals. Some art historians from the end of 20th century, even after the iconographic determination of the Deesis composition by Antonín Friedl considered, for example, that the figure of St. John the Baptist was a figure of St. John the Evangelist. Let’s focus our attention to the two figures on the side – the Virgin Mary and St. John the Baptist. Ultraviolet images and infrared photographs show...

Figure 1. M. Trapp, 1861, coloured drawing (photo from author’s archive).

Figure 2. Conditions of the mural painting in the dome of the apse in 2006 (photo from author’s archive).

Figure 3. Stratigraphy of the paint layers (photo from author’s archive).
us a continuous painting on plaster, which could, except for the outlines, have been done as a secondary painting, because nothing more is conserved then this painting. It is obvious that without the identification of colour layers of the mural it would not be possible to verify opinions about the credibility of the restorations (Figure 3).

After comparing cross sections of samples, images from non-destructive ultraviolet and infrared investigation (Figure 4), and historical documents, it is possible to state that the best documentation of the mural’s appearance is Trapp’s aquarelle. The postures and shapes of figures correspond to the original appearance and to the discovered Deesis composition. Both lateral figures of Virgin Mary and St. John the Baptist were created by Melicher (as we know he used zinc white during the restoration – documented by the analysis of samples taken from select parts of the painting).

The hands of the Virgin Mary are not in their original state, in contrast to Konečný’s comments, as shown on the coloured images of the Institute of Classical Studies of the Academy of Sciences of the Czech Republic. In this case there are parts of dropped plaster, salt efflorescence and mold that give the impression of a mural painting (Konečný 2005; Figure 6).

2.2 Originally pigments of the Romanesque paintings
As I discovered, the original Romanesque plaster is the same in every part of the painting, differing only in thickness. The thickness is as much as 8 mm, while in some places the wall are exposed. An upper layer of glazed plaster onto which paint was applied (the “intonaco”) is 2–4 mm thick. The original painting was done with lime and casein, with a lime and milk binding agent, on dry plaster with an “al secco”
technique. The painting’s composition was drawn with a brush. The third tier of the painting, the preliminary painting, was done in yellow. The painting itself was then done with red as the final colour. In other sections of the painting red is used for both preliminary and final painting. The tinted spaces were laid with a colour dissolved in limewater and milk. The following original elements were identified from pigment samples: green earth, yellow and brown ochres and lead white. The original blue pigment was most likely a blue ochre (vivianit) that is now identified on mural paintings from the 12th century onwards. No overpaintings or chronological separation of parts of the mural were found in any investigations (restoration efforts, tests under ultraviolet or infrared light, sampling, nor from laboratory examinations conducted after the Second World War).

2.3 Orientation of the building
The ducal rotunda is orientated to the sunrise on the date of Assumption of Mary on 15th August (adjusted to the Julian calendar). (Dvořáková, Hotárek 2008)

2.4 Construction and scale of figures
That the construction of the building and painting of the murals occurred in the same period (the 12th century) are also shown by the recent discovery that the same scale was used in both the construction of the building and the Romanesque paintings inside the ducal rotunda of Saint Catherine. The rotunda has an internal ground plan length of 33 feet (the age of Jesus Christ). Painters composed the figures in the same way, dividing the figures to 33 parts. The length of the nose served as basic size, a fact that had already been defined by the byzantine tradition and painting manual from Mount Athos (Painting manual from Mount Athos, Schäfer 1855). All images of rulers are created by the same construction principle (Figure 7).

2.5 The collocation of King’s figure
The only figure of a King painted by the Romanesque painters, is not painted in the position of honour – opposite the altar as reported in art history literature – instead the figure is painted where the sun shines at sunrise at the summer solstice. After recalculation the date back to the Julian calendar, the date was found to exactly correspond to the date of the coronation.
of Vratislaus I to both the Bohemian and Polish thrones – but only if the building had been constructed before 1134.

2.6 The spiritual function of the building
Apart from other iconographic and iconological specifications which will be published later, there is another important discovery that proves the date of both building and painting. The central motive of the apse is Christ on the throne, in the position of Majestas Domini, where he is seen as the Ruler and Judge of all. The decoration of the ship culminates with the depiction of the descent of Holy Spirit in the dome, and by seven holes in the cap of the dome which were constructed for Pentecost (Figure 8).

The whole project of the construction of the rotunda and creation of Romanesque paintings is mentally constricted to the Christian religion under the conduct and influence of the Holy Spirit, symbolized by a dove. It is obvious that the composition of the murals and the building’s construction was intended and connected with the historical events for which it was constructed.

3. Discussion of practical results

3.1 Results of the study of historical finds
The proof of the correct interpretation and dating of the paintings, in relation to the completion of the construction of the building, lies within an historical event: on Pentecost 1134, on the occasion of the baptism of the second son of the prince Sobeslaus I, a wedding was agreed between Conrad II of Znojmo, and Mary of Serbia, sister of the Hungarian Queen. The pact between Sobeslaus I. and Conrad II. of Znojmo, concerning the future ascension of Conrad II of Znojmo to the throne of the principality of Prague, would have been reinforced through this marriage. Conrad II of Znojmo had also recently regained power in the territory, which belonged to him in accordance with family title.

“Interea dux Sobieslauslevirum suum, regem Ungarorum, rogabat, quatenus sororem coniugis, suae, videlicet reginae, principi Conrado Znoymensi in coniugium traderet, quo percusum foedus invicem huuismodi causis corroboratum firmius perduraret.” (Canon of Vyšehrad, 1134)

In the ducal rotunda we also find an inscription from 1134 that reads “CONRADUS SECUNDUS FUNDATOR”.

The decisive confirmation of the date of the building and painting is the fact that the meaning of word “secundus” could, in accordance with middle age etymology, also mean “successor” (compare with similar uses of this word in FRB III, 336, or manuscript n. 9045 in Nationalbibliothek Wien – “Secundis sedentibus in thronis meis binis” – “To the successors, whom will be sitting on my dual throne”).

The correct interpretation of this inscription does not consist in translation, that has been used in the professional literature up to date: “Conrad the second founder”, but in middle age meaning, that clearly did mean “Conrad successor fundator” of the ducal rotunda and their interior paintings and decorations.

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