

Raman spectroscopy in conservation

Theory and practice

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Peter Vandenabeele is professor in archaeometry at Ghent University, Belgium. In 2000, he obtained his PhD in analytical chemistry with research on the application of Raman spectroscopy and total-reflection X-ray fluorescence for the analysis of art objects. At that time, Raman spectroscopy started to develop as a technique in archaeometry research. Since then, the research group has always been on the edge of new developments, including the construction of the first mobile Raman spectrometer designed for

art analysis (MArtA). His research aims to optimise Raman spectroscopy for archaeometry applications. The research group focusses on three main axes, molecular analysis of pigments and their degradation products; mobile Raman spectroscopy and Raman mapping; and research on micro-spatially-offset Raman spectroscopy (micro-SORS). Peter Vandenabeele is author of over 140 research papers and recently authored a handbook on Raman spectroscopy.

