



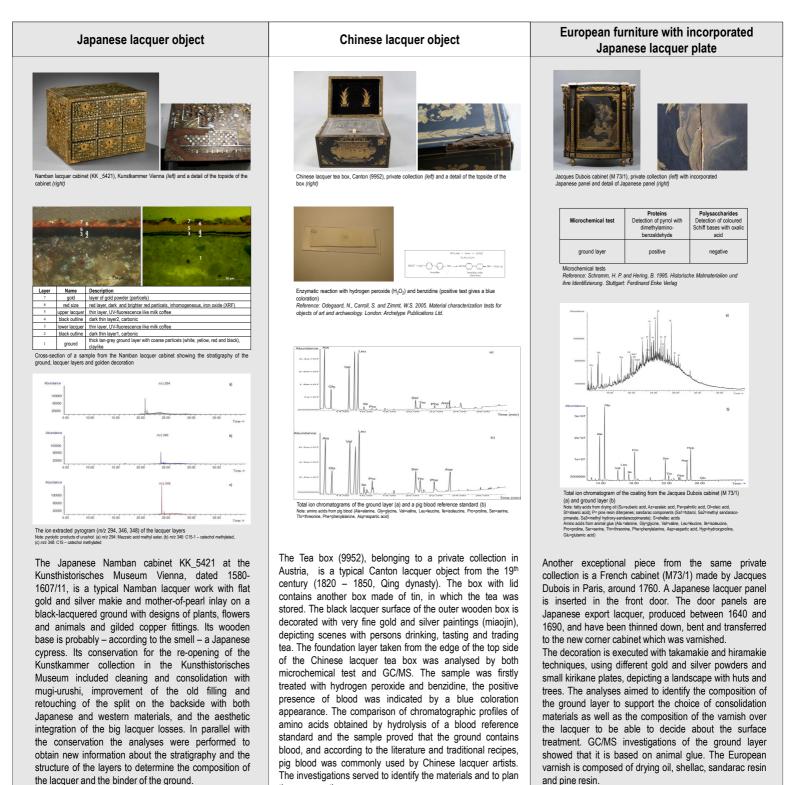


Scientific Investigation of Historic Asian Lacquer Works of Art

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From the sixteenth century onwards collecting Asian artefacts has been fashionable among European aristocratic houses since the Portuguese and later the Dutch and the English obtained a monopoly for trading with China and Japan, where lacquer has been used for thousands of years as a durable and beautiful coating material. As European imitations and replicas were produced later, it has always been fundamental for assigning the provenance of these objects to accurately define not only the coating technique, but also the composition of the surface varnishes and lacquers as well. According to the provenance, the objects can be divided into three groups: Japanese, Chinese, and European origin, respectively. Examinations of the lacquer objects revealed that in addition to Asian lacquers a variety of other materials were used to obtain a durable lacquer layer. Diverse drying oils, proteinaceous or polysaccharide based materials applied as organic binding media – together with various substrates and pigments – were identified when studying the grounds, lacquer layers or upper coatings. Combining optical microscopy and GC/MS is an appropriate analytical approach to detect and identify such complex organic mixtures.



the conservation measures.