

# **DIGITAL CERAMICS: GREAT EXPECTATIONS**

**Dr. Vicente Sanz Solana  
Instituto de Tecnología Cerámica  
Universitat Jaume I, Castellón, Spain**

Ceramic tile decoration techniques have evolved significantly in recent years. Digital inkjet technology has enabled digital systems to be used for direct decoration of ceramic tiles, revolutionizing ceramic tile decoration and providing many advantages over traditional decoration techniques. This presentation will review the evolution of ceramic digital decoration technologies and show how different challenges have been overcome in many areas, as inks, printheads, digital images and printers.

Inkjet printers have been massively implemented, worldwide, for tile decoration and their use is currently extending to the obtainment of surface effects (gloss, matt, chameleonic...) and to the application of glazes and relieves. The new challenges to massive implementation of these new applications and the need to follow this path will be discussed.