



## Questioned Documents Section – 2005

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### J11 The Examination of Inkjet Printed Documents—What's on the Frontier

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After attending this presentation, attendees will understand current approaches to examining inkjet printed documents by utilizing physical and chemical examinations; and become aware of new technologies that are on the horizon for the analysis of inkjet printed documents.

This presentation will impact the forensic community and/or humanity by demonstrating the practices incorporated at the U.S. Secret Service Forensic Laboratory for the examination of inkjet printed documents and serving as a platform for the introduction and discussion of some new techniques.

With the tremendous popularity of inkjet printers, forensic document examiners are encountering these types of questioned documents more often. The physical and chemical examination of inkjet printed documents can help to associate multiple documents to each other and/or to a suspect printer(s), determine the brand of printer(s), and possibly determine if a document is legitimate with respect to date. The objective of this presentation is to emphasize the importance of conducting examinations using microscopy, the video spectral comparator (VSC), an electrostatic detection device (EDD), and/or thin layer chromatography (TLC). As well, some new ideas will be proposed with the intention of providing forensic document examiners insight into the future of inkjet analyses. These will include instrumental methods such as spectrophotometry, mass spectrometry, and the use of imaging analysis equipment and software.

#### **Inkjet, Printers, Ink Analysis**