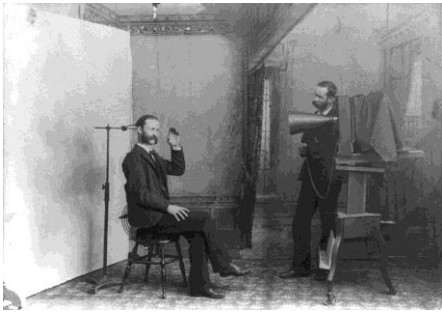


# Fundamentals of the Conservation of Photographs



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**SESSION:** Introduction to Infrared Spectrometry

**INSTRUCTOR:** Dusan Stulik

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## SESSION OUTLINE

### ABSTRACT

Theoretical introduction to Fourier Transform Infra Red (FTIR) spectrometry and its applications in art conservation, conservation science and the identification of photographs.

### LEARNING OBJECTIVES

As a result of this session, participants should be able to:

- Understand basic principles of FTIR spectrometry
- Understand sample preparation and manipulation
- Understand limitations of FTIR analysis
- Master basic interpretation of IR spectra for photographs and materials used in photograph conservation practice

### CONTENT OUTLINE

- Lectures and demonstrations covering:
  - Problem of analysis of organic materials
  - Methods of organic analysis
  - History and techniques of FTIR analysis
  - Advantages and disadvantages and limitations of the FTIR analysis
  - Identification of single components
  - Identification of complex mixtures of materials
  - Thin film analysis
  - Analysis of multilayer material
  - Identification of organic media, substrates and coatings of photographs
  - Identification of dyes and pigments of tinted and painted photographs
  - Application and problems of the quantitative FTIR analysis



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## SESSION OUTLINE CONT'D.

- Practical laboratory training of application of FTIR spectrometry in identification of photographs (hands on experiments and training in interpretation of infrared spectra)

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