



Dr. Eric Smolensky

Dr. Rebecca Tissot

Dr. Eric Smolensky is an analytical chemist with over 10 years of experience focusing on nanoparticle surface science and education. In addition to his time as a chemist, he has also spent five years teaching privately and developing premium-level test prep curriculum. He has authored over 10 publications in the form of scientific publications, academic books, and articles. At Ebatco, Dr. Smolensky manages the Chemical Analysis Department with state-of-art instruments such as FTIR, Raman, XRD, SEM/EDS, and thermal analyzers.

Dr. Rebecca Tissot has been working as a materials scientist for more than ten years and is the author of 20+ peer reviewed publications. Her work experience spans a wide range of materials testing and fabrication including metals, magnetic materials, ceramics, and nanomaterials in academic, governmental, and industrial settings. At Ebatco, Dr. Tissot heads the Materials Testing and Metallurgy Department, which utilizes techniques such as SEM/EDS, XRD, failure analysis, metallography, and hardness testing.

REGISTRATION INFORMATION

Training course seats are limited and may be filled soon. Please contact Ebatco today to register with the following information.

Name:
Organization:
Address:

Phone Number:
Email:

PAYMENT

Cost for the training is \$990/attendee. Payment can be made by credit and check.

Credit: Please call (952) 941-2199 with your credit card information.

Checks. Please mail checks to the address listed below.



QUESTIONS? CONTACT US:

Ebatco
10025 Valley View Road, Ste 150
Eden Prairie, MN 55344

Phone: 952.941.2199
Fax: 952.746.8086
Email: training@ebatco.com

www.ebatco.com

Contamination, Impurity, & Unknown Material Identification

EBATCO ACADEMY
TRAINING COURSE NO. 2

SEPTEMBER 19th – 20th, 2019

Ebatco Academy

Training Series No. 2

CONTAMINATION, IMPURITY, & UNKNOWN MATERIAL IDENTIFICATION

Ebatco is a nanotechnology-focused service and development company that builds bridges to the nanotech economy. The Ebatco Academy was created to disseminate scientific and technological knowledge and to provide essential and critical trainings in testing, measurement, and analysis using advanced instruments. Following the success of the inaugural 2018 training course, we are pleased to announce the Ebatco Academy 2nd training course! This training course is comprised of both lecture-discussion sessions to prime attendees and demonstration-application sessions to provide attendees with experience and practice. The training course is scheduled on September 19th – 20th, 2019, and it will cover how to identify unknown materials, contaminations, and impurities using FTIR, Raman, SEM/EDS, and XRD techniques.

EVENT DETAILS

When: September 19th – 20th, 2019

Where: Ebatco
10025 Valley View Rd.
Suite 150
Eden Prairie, MN 55344

Cost: \$990/attendee

Cost includes training instruction and materials, lunch, and networking event. Travel and lodging not included.

WHAT YOU WILL LEARN

Attendees will get exposure to all aspects of unknown identification including analysis and extraction techniques, spectral interpretation, and advanced analyses using FTIR/Raman microscopy and spectroscopy, SEM/EDS, and XRD. The training is limited to fewer than 30 participants to encourage engagement and discussion. Topics to be covered may include the following:

- Contamination Extraction/Analysis
- Discolorations and Colorant Extractions
- Finished Goods Quality Inspection
- Food Forensic Investigation
- Foreign Inclusions in Materials
- Medical Device Sanitation/Particulate Analysis
- Microstructures and Phase Identification
- Minerals and Powder Composition
- Raw Material Inspection
- Sub-Micron Particle Analysis
- Trace Element Determination

WHO SHOULD ATTEND?

This series is open to anyone who has some technical background. New and experienced technicians, engineers, analysts, and scientists working in R&D, analytical labs, testing centers, and quality management from the following fields may find the information particularly valuable.

- Aerospace
- Alloys & Steels
- Coatings & Thin Films
- Electronics
- Food & Beverage
- Medical Devices
- Pharmaceutical
- Polymers & Plastics
- Transportation

Schedule of Events

Day 1 – September 19th, 2019

- 8:00 – 8:30 am: Registration, Coffee and Donuts
- 8:30 – 9:00 am: Welcome and Introduction
- 9:00 – 10:30 am: Identification Using FTIR Microscopy and Spectroscopy
- 10:30 – 10:45 am: Coffee Break
- 10:45 – 12:15 pm: Identification using SEM/EDS
- 12:15 – 1:15 pm: Lunch on Site
- 1:15 – 2:45 pm: Group A: Demo/Application: FTIR
Group B: Demo/Application: SEM/EDS
- 2:45 – 3:00 pm: Coffee Break
- 3:00 – 4:30 pm: Group A: Demo/Application: SEM/EDS
Group B: Demo/Application: FTIR
- 4:30 – 6:00 pm: Networking over Wine and Cheese

Day 2 – September 20th, 2019

- 8:00 – 8:30 am: Coffee & Donuts
- 8:30 – 10:00 am: Identification Using Raman Microscopy and Spectroscopy
- 10:00 – 10:15 am: Coffee Break
- 10:15 – 11:45 am: Identification Using XRD
- 11:45 – 12:15 pm: Guided Tour of Ebatco
- 12:15 – 1:15 pm: Lunch on Site
- 1:15 – 2:45 pm: Group A: Demo/Application: Raman
Group B: Demo/Application: XRD
- 2:45 – 3:00 pm: Coffee Break
- 3:00 – 4:30 pm: Group A: Demo/Application: XRD
Group B: Demo/Application: Raman
- 4:30 – 4:45 pm: Q&A and Survey