



First Announcement

ENFSI One Day One Topic Seminar (ENFSI-OOS) An introduction to the analysis of organic gunshot residues

Venue: Bundeskriminalamt
Kriminaltechnisches Institut
Äppelallee 45
65201 Wiesbaden
Germany

Date: Tuesday, November 22nd, 2016
9:00 to 17:00

Summary:

The forensic detection of gunshot residues currently strongly relies on the analysis of inorganic particles formed during the ignition of a cartridge by SEM/EDS. This method is well established for several decades now and still state-of-the-art for GSR analysis. However, there are reasons for not only looking for inorganic compounds but also for organic gunshot residues (OGSR) which originate from explosives, additives and stabilizers in smokeless powder:

- Heavy metal free primers produce much less characteristic inorganic particles, which are difficult to discriminate from environmental particles. An additional method is of high interest.
- It is expected that OGSR shows a different behavior in its persistence, secondary transfer and sources of contamination compared to inorganic particles.
- Modern LC-MS provides enough sensitivity to detect OGSR and is now widely available in forensic laboratories.

This OOS gives an overview of the results of the EU funded project “Development of analytical methods for the sensitive detection and identification of organic gunshot residues based on liquid chromatography/mass spectrometry for routine casework” (HOME/2011/ISEC/AG/4000002504) as well as on the current research in OGSR. Participants will learn also practical aspects of sampling, extracting and analyzing OGSR with LC-MS in workshops.

Target group:

Forensic experts / technicians in GSR and/or mass spectrometric methods



Preliminary agenda:

- 09:00 - 12:00 Lectures: Introduction, basics of OGSR and LC-MS, target compounds, overview heavy metal free primers, current research results on OGSR, results of the ISEC project, proposal for practical application in conjunction with SEM/EDS-analysis.
- 12:00 - 13:00 Lunch break
- 13:00 - 16:00 3 practical Workshops (each approx. 50 min, short breaks between the workshops) in 3 groups: Sampling materials and sampling procedures, sample extraction and work-up, LC-MS analysis.
- 16:15 - 17:00 Questions and Final discussion

A detailed agenda will follow.

Remarks:

Every participant needs a valid passport / ID card to enter the BKA. Furthermore a DNA sample is required for entering lab areas (afternoon workshops).

Each participant from an ENFSI lab is eligible for 100 € funding for travel expenses by the ENFSI secretariat.

Due to limited lab space, afternoon workshops have a limited number of participants (6 per group, 18 in total). In case of more than 18 participants the organizer might offer additional presentations / seminars for those who could not take part in the lab workshops.

Registration:

Please send an e-mail to KT23-OGSR@bka.bund.de to register to the OOS, there is no registration fee. Please include the following information: Name of laboratory, Field of expertise.

Deadline for registration: **October 31st, 2016**

If you have any questions regarding the OOS, please contact Dr. Rüdiger Schumacher either by e-mail (see above) or by phone +49 611 55-14051.

Accommodation:

Participants are asked to make their own travel arrangements, we recommend Motel One (near Wiesbaden central station and city center, bus connection to BKA-Äppelallee 45) or Hotel am Schlosspark (in walking distance to BKA-Äppelallee 45) for accommodation. Travel directions to Wiesbaden can be found here: www.bka.de/EN/TheBKA/TravelDirections/w2/w2_node.html.