

PROGRAMME

Tuesday 8 October 2019

16:00 – 19:00 **Registration**

19:00 – 23:00 Registration & Welcome Reception at Vienna Hotel, Dragon Bar (Bar Smok)

Wednesday 9 October 2019

8:00 – 13:00 **Registration**

9:00 – 11:00 **Business Meeting of ENFSI FA & GSR WG (Only Members and Associate Members)**

WG Chair: Zuzanna Brożek-Mucha

Update on communication, finances, projects.

New Associate Members election, next meeting venue, etc.

Terms of Reference

11:00 – 11:30 *COFFEE BREAK*

Common session, Chair: Zuzanna Brożek-Mucha

11:30 – 12:00 Some progress in method of shooting distance estimation and its perspective – I. Afanasev

12:00 – 12:30 National firearm reference distribution database – X.A. Zheng, J. Soons, E. Smith, M. Baiker

12:30 – 13:00 My criminalistic adventures in Mexico – R. A. Grzybowski

13:00 – 14:00 *LUNCH*

Common session, Chair: Jan De Ceuster

14:00 – 14:30 Error estimation on extracorporeal trajectory reconstruction based on intracorporeal findings – F. Riva, U. Buck, K. Buße, R. Hermsen, E. Mattjissen, W. Kerkhoff

14:30 – 15:00 More about bullet deflection through soft tissue simulants – F. Riva, W. Kerkhoff

15:00 – 15:30 Traces produced by the discharge of the 3D-printed Liberator: exploring the influence of printing technology, 3D-printers and polymers – M. Saner, D. Werner, M. Gorka, D. Rhumorbarbe, A. Gallusser, O. Delémont

15:30 – 16:00 *COFFEE BREAK*

16:00 – 16:30 Recent Mass Shootings in the US processed in FBI Laboratory – E. D. Smith

16:30 – 17:00 Quantifying the similarity between bullets – H. Hofmann, A. Carriquiry

19:00 – 23:00 Conference Dinner at Vienna Hotel, Restaurant Mavericks

Thursday 10 October 2019

Firearms session, Chair: Thomas Liebscher

- 9:00 – 9:30 New Russian calibers: 366 TKM and 9,6/53 Lancaster – A. Likhachev, N. Astapova, I. Shlyundina, G. Dzuba
- 9:30 – 10:00 Development of a procedure to remove dirt and corrosion from old cartridge cases – D. Rumo, D. Werner, G. Gobat, D. Rhumorbarbe, A. Gallusser, J.-L. Gassend, O. Delémont
- 10:30 – 11:30 Identification of firearms by the acoustic signals of the mechanism – P. Giverts
- 11:00 – 11:30 *COFFEE BREAK*
- 11:30 – 12:00 A Profile/ image reconstruction method for objective comparison of deformed bullets – J. Song, R.M. Thompson, Z. Chen, J. A. Soons, M. E. Nadal
- 12:00 – 12:30 In a flash – M. Mastaglio
- 12:30 – 13:00 A common data format for all ballistic identification systems – the current status of X3P – Ch. Zetzmann, T. Liebscher
- 13:00 – 14:00 *LUNCH*

Firearms session, Chair: Fabiano Riva

- 14:00 – 14:30 The application of 3D laser scanning in shooting incident reconstruction. First baby steps, the learning curve and validation – J. De Ceuster
- 14:30 – 15:00 The use of X-Ray Computed Tomography to investigate modification in firearms – K. Addinall, A. Townsend, L. Blunt
- 15:00 – 15:30 Complex Comparison Approach in Firearm Identification – M. Fencf
- 15:30 – 16:00 *COFFEE BREAK*
- 16:00 – 16:30 The Influence of spatial frequencies of ballistic traces on automated search effectiveness – M. Farutin, A. Skvortsov
- 16:30 – 17:00 Objective Bullet Identification – S. Levesque

Thursday 10 October 2019

GSR session, Chair: Matteo Donghi

- 9:00 – 9:30 Accelerated PVAL method for collection of GSR from human skin – C. Lux, L. Taube, M.A. Verhoff, S. Kurscheid, G. Zöller-Huse, S. Roggenkamp, R. Schumacher, D. Neimke, M. Kettner
- 9:30 – 10:00 The new ISO17025 risk management culture an approach to implementation in a GSR lab – S. Charles, H. Thiebaut, T. De Baere, N. Geusens, B. Nys
- 10:30 – 11:00 Distribution of gunshot residue on close range shooting targets characterised using electron microscopy, X-ray spectrometry and computer microtomography – Z. Brožek-Mucha, P. Szymczyk, J. Tarasiuk, S. Wroński
- 11:00 – 11:30 *COFFEE BREAK*
- 11:30 – 12:00 Structural segregation of mercury in residue of mercury fulminate based primer – F. Nunziata, D. De Felicis, M. Donghi, E. Bemporad
- 12:00 – 12:30 Lead in mercury-based primers – M. Kaindl, K. Lüftl

12:30 – 13:00 GSR-particles from reference cartridges were compared to material found on clothing – S.R. Madsen, P. Wahlberg

13:00 – 14:00 *LUNCH*

GSR session, Chair: Kal Chana

14:00 – 14:30 LIBS – Efficiency in the determination of shooting distance – A. Doña Fernández, A. Heras, E. Valtuille, F. Aller Sánchez, M. López Ordás, A. Busta Olivar

14:30 – 15:00 iFORENLIBS – determination of GSR on any type of surface in the crime scene. Rreal cases – A. Doña Fernández, J.F. Saavedra, F. Aller Sánchez, J.A. Rodriguez Pascual, S. Tirado Peña, E. Valtuille, A. Heras

15:00 – 15:30 Prevalence of organic gunshot residues in police vehicles – V. Redouté-Minzière, C. Weyermann, A.-L. Gassner

15:30 – 16:00 *COFFEE BREAK*

16:00 – 16:30 A review of the literature in the field of gunshot residue Analysis during the time period 2016 - 2018 – S. Charles, E. Vergalito, N. Geusens, B. Nys

16:30 – 17:00 Enhancements to the Analytical SEM GSR Workflow – R. Jones

Friday 11 October 2019

Firearms workshop – Chair: Alice Walthers

9:00 – 11:30 Preliminary results of the latest ENFSI firearms identification proficiency test (FAID 2018) – A. Walters

11:00 – 11:30 *COFFEE BREAK*

11:30 – 13:00 FAID2018 – continued

13:00 – 14:00 *LUNCH*

Friday 11 October 2019

GSR Workshop – Chair: Ludwig Niewoehner

9:00 – 11:30 How to measure sub-micron GSR particles – D. Neimke, L. Niewoehner

11:00 – 11:30 *COFFEE BREAK*

11:30 – 11:45 Accreditation of GSR examination in the light of requirement of new version of ISO17025 – A. Michalska

11:45 – 13:00 How to measure sub-micron GSR particles – continued

13:00 – 14:00 *LUNCH*

Poster presentations

1. GSR particles from interwar ammunition – B. Chytilová, L. Fojtášek, M. Fencel
2. Influence of mechanical internal and external ballistic factors on bullet comparative analysis – A. Magliacano
3. Fate and behaviour of gunshot residue: deposition and distribution of GSR on the shooter from the discharge of a shotgun – L. S. Blakey, G. P. Sharples, K. Chana and J.W. Birkett

4. Search for evidence of crime in a floor dust – Z. Brożek-Mucha, J. Waś-Gubała
5. New insights on scanning electron microscopy in forensic sensing – Z. Brożek-Mucha
6. Application of CAMAG® Derivatizer in Forensic Sciences – an easy way to spray filter paper/foils – S. Christen, S. Graf
7. Blind case implementation – G. Gobat, W. Kerkhoff , S. Christen
8. The experimental and numerical investigation on the ballistic limit of BB-Gun pellet versus skin simulant – Haitao Lu, Xiaolin Wang, Yongxi Jin, Yiyi Li, Zhifei Zhou

Information for the Annual Meeting participants

Recording of the full presentations are allowed only after the author's permission (the author's rights).