

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 – 9:30 **Registration**

9:30 – 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. Fencel
- 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 FAID2018

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, Ludwig 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. Application of CAMAG® Derivatizer in Forensic Sciences – an easy way to spray filter
paper/foils – S. Christen, S. Graf
6. 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