



Università  
degli Studi di  
Messina



Accademia Peloritana  
dei Pericolanti

**INTERNATIONAL WORKSHOP  
ON  
ADVANCES AND APPLICATIONS IN GEOFORENSICS:  
Unraveling Crimes with Geology**

**26<sup>th</sup> September 2022  
(8:00-17:00)**

**Workshop locality for attendees (in presence):  
Scientific campus of the University of Messina (Italy)  
Viale Ferdinando Stagno d'Alcontres, 31, Sant'Agata (Messina)**

**LIST OF THE PRESENTATIONS**

- 1) **Baldino, G.**, Pennisi, C., Altadonna, A., Fodale, V., Cucinotta, F., Somma, R., Ventura Spagnolo, E., Mondello, C., Gualniera, P., Asmundo, A., and Sapienza, D. (2022). "The judicial inspection: from traditional techniques to the application of virtual radio imaging models" (Poster)
- 2) Barone, S. (2022). "Education and Training in the Forensic Geology and Criminalistics summer school: the experience of an undergraduate" (Poster)
- 3) Byrd J. "Forensic Entomology: Insects from Clandestine Gravesites" (Invited Lecture)
- 4) Canter D. "Following in Criminals' Footsteps: Developments in Geographical Offender Profiling" (Invited Lecture)
- 5) **Dawson, L.**, Ainscough, L., Vannan, A., Monaghan, D., Johnston, L., Roberts, J., Spencer, M., and Brewer, M. (2022). "Trace evidence comparison between soil on footwear and reference site locations: application to a murder investigation" (Invited Lecture)
- 6) **Epasto, G.**, and Somma, R. (2022). "On the application of Computed Tomography in Forensic Engineering: a case study" (Poster)
- 7) **Fodale, V.**, Baldino G., Pennisi, C., Ventura Spagnolo, E., Mondello, C., Gualniera, P., Asmundo, A., Somma, R., and Sapienza, D. (2022). "Use of hyper-realistic mannequins in forensic practice: from teaching to simulations in judicial purposes" (Poster)
- 8) Fonseca F. J. (2022). "The importance of soil analysis in forensic science and criminal investigation" (Invited Speaker)
- 9) **Maniscalco, R.**, and Somma, R. (2022). "Micropaleontology applied to crime solving" (Invited Speaker)
- 10) Marra, A. C. (2022). "A taphonomical approach to the study of clandestine graves" (Poster)
- 11) **Marra, A. C.**, and Somma, R. (2022). "Geology and Palaeontology applied to criminal cases" (Poster)
- 12) **Morabito, M.**, and Somma, R. (2022). "The critical role of Forensic Botany in the solution of judicial cases" (Poster)

- 13) **Morabito, M.**, Mondello, F., and Somma, R. (2022). “Macrobotanic data implementing Forensic Geology investigations” (Poster)
- 14) **Siggaard-Andersen, M.-L.**, Frøslev, T. G., Nielsen, I. B., Kjær, K. H., Hansen, A. J., Laursen, K. H., Strobel, B. W., Lyngsie, G., Rieckmann, M. M., Mikkelsen, F. N., Frimodt-Møller, M., Nielsen, H. S., and Jensen, H. H. (2022). “With the feet on the ground – How we started soil-forensics in Denmark” (Invited Speaker)
- 15) Somma, R. (2022a). “Unraveling crimes with Geology” (Keynote Lecture)
- 16) Somma, R. (2022b). “Forensic Geology applied in the search for clandestine burials” (Poster)
- 17) Somma, R. (2022c). “Proposal for a new method for sieving geological physical evidence in microtraces” (Poster)
- 18) Somma, R. (2022d). “Geographical Profiling of lust murderers” (Poster)
- 19) **Somma, R.**, and Costa, N. (2022). “GIS-based RAG priority search maps: geomatics applied to the lust murders committed by the Florence Monster” (Poster)
- 20) **Somma, R.**, and Fonseca, J. F. (2022). “Measuring color through low-cost commercial flatbed scanners: a proposal for a cost-effective and accurate method for comparative forensic analyses of forensic geological physical evidence” (Poster)
- 21) Somma, R., Altadonna, A., **Cucinotta, F.**, Raffaele, M., and Salmeri, F. (2022a). “The application of 3D scan technologies in Criminalistics and Forensic Geology” (Poster)
- 22) **Somma, R.**, Cascio, M., Cucinotta, F., Mondello, F., Morabito, M., and Sabatino, G. (2022b). “As physical evidence analyzed by forensic geologists and botanists may provide valuable elements for the reconstruction of event dynamics” (Poster)
- 23) **Spoto, S. E.**, Caridi, F., Paladini, G., Crupi, V., Majolino, D., and Venuti, V. (2022a). “Trends and perspectives in forensic gemology” (Poster)
- 24) **Spoto, S. E.**, Paladini, G., Caridi, F., Crupi, V., Majolino, D., and Venuti, V. (2022b). “A  $\mu$ -Raman spectroscopic approach to detecting diamond simulants” (Poster)
- 25) Spoto, S. E., Somma, R., **Paladini, G.**, Caridi, F., Interdonato, M., Majolino, D., Venuti, V. (2022c). “XRF and  $\mu$ -Raman techniques for the characterization of colored gemstones: some case study” (Invited Speaker)
- 26) **Tagliabue, G.**, Masseroli, A., Mattia, M., Sala, C., Belgiovine, E., Capuzzo, D., Galimberti, P.M., Slavazzi, F., Cattaneo, C., and Trombino, L. (2022). “Thanatogenic soil: a geoforensic approach to the exploration of the Sepolcreto (i.e., burial ground) of the Ca’ Granda (Milan)” (Poster)