

## SESSION 20

### Bioremediation and nature-based solutions

WEDNESDAY 18 SEPTEMBER

17:00 – 19:10 CEST (Central European Summer Time)

Europe Room  
2<sup>o</sup> floor

#### Opening

**17:00** Welcome from *Johan Ceenaeme (OVAM), Victoria Lazenby (ALGA), Stephanie Fiorenza (ASTM International)*

#### Presentations

**17:05** Soil bioremediation efficiency: the impact of bioaugmentation and mineral or green compost additive in PAHs and TPH contaminated soil  
*Nicolas Martin, Malgorzata Grybos, Thibaut Le-Guet, Fabrice Dupuy, Emmanuel Joussein (Université de Limoges)*

**17:20** Microbiomes for the depletion of hexachlorocyclohexane in contaminated environments: the power of biodiversity  
*Giacomo Bernabei, Giampiero De Simone, Simone Becarelli, Riccardo Di Mambro, Simona Di Gregorio (BIOUNIFI, University of Pisa), Alessandro Gentini (Teseo Bonifiche)*

**17:35** Laboratory degradation tests as first step for the design of a bioremediation strategy  
*Federica Brogioli, Cosimo Masini (DND Biotech)*

**17:50** LIFE NARMENA: Nature Based Remediation Techniques for heavy metals in sediment - Constructed Wetlands – monitoring post works of the Winterbeek site  
*Axelle Mineur, Jan De Vos (ABO Group), Froukje Kuijk (OVAM), Karel Viaene (ARCHE)*

**18:05** Comparative Analysis of Lignin Peroxidase and Laccase Activities in the Presence of Graphene-Related Nanomaterials  
*Humberto Castillo-González, Fabio Candotto-Carniel, Mario Mardirossian, Mauro Tretiach (University of Trieste)*

**18:20** Enhanced remediation of LNAPL-contaminated soil using polymer-alcohol emulsion  
*Bexultan Sabyrbay, Fabien Lion, Dorian Davarzani, Stéfan Colombano (BRGM), Christophe Dicharry (Université de Pau et des Pays de l'Adour (UPPA)), Sagyn Omirbekov (Nazarbayev University), Mélanie Lorthioy, Mohamed Krimissa (EDF)*

**18:35** Microbial characterization of multicontaminated marine sediments in Mar Piccolo Site (Taranto, Italy) and selection of aerobic and anaerobic hydrocarbondegrading bacteria  
*Bruna Matturro, Barbara Tonanzi, Federico Aulenta (NBFC), Maria Letizia Di Franca, Carolina CruzViggi, Magda Di Leo, Santina Giandomenico, Simona Rossetti (CNR-IRSA)*

**18:50** Panel discussion moderated by chairs

**19:10** End of the session

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