



# WG 05 – Health and Safety in Works



- Animateur Dr Donald Lamont/**Dr Michael Halwachs**. V-A Werner Burger.
- Over two meetings we had 17 attendees from 13 countries participating – including 5 remotely.
- (Successful) Outcome of activity promised in Copenhagen:
  - Revision of Report 10 “HPCA Guidelines” – revised text approved by WG5 – BTS CAWG set to approve text in early June. Text to ExCo by July 2023.
  - Revision of Report 20 “Client guide to Report 10” – revised text approved by WG5 – BTS CAWG set to approve text in early June. Text to ExCo by July 2023.
  - These revisions link in with the revision of EN 12110 “Airlock safety” and EN 16191 “TBM safety”.



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- Activity before WTC 2024 – 2 drafts to be completed.
  - “Guidelines on human factors in tunnelling” – this guideline will address the impact of human factors such as fatigue, sleepiness, shift length/pattern, human reliability, error proneness and ergonomics in tunnelling and give guidance on how to mitigate their negative effects.
  - Revision of Report 14 “Refuge Chambers” – this will take account of changes in prEN 16191 affecting the design and construction of refuge chambers as well as developments in the equipment and life support systems in chambers. The revised guideline will address the deployment of chambers and be expanded to take account of specialist applications such as mobile chambers and fresh air bases for self rescuer changeover.

