



# Canmet Canadian Explosives Research Laboratory

## Science in Support of Explosives Safety and Security

CanmetCERL, Ottawa, Ontario, Canada

Government laboratory established in 1919 to address growing issues concerning accidents during manufacture and transport of explosives, along with commercial usage of explosives at that time.

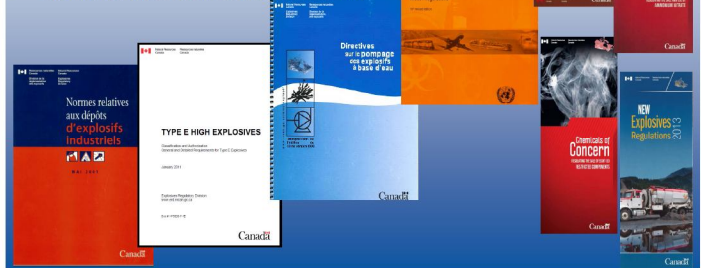
Main scientific resource for the Chief Inspector of Explosives for regulating explosives use in Canada, accredited by the Standards Council of Canada. investigating science and technology related to the safety and security of commercial explosives;

- blasting explosives,
- explosive precursors,
- fireworks.,
- pyrotechnic articles,
- propellant powders, ammunition etc.



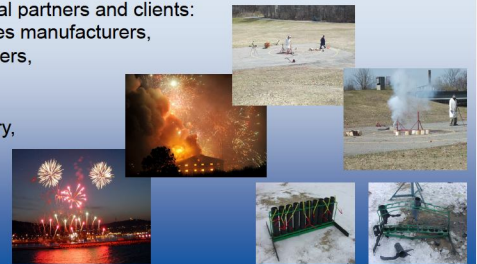
Activities include:

- testing if a product is acceptable for use,
- reducing the effects of accidental or terrorist blasts,
- contribution to accident investigations,
- development of standards or guidelines,
- R&D towards safer use of explosives
- and other client-based contract work.

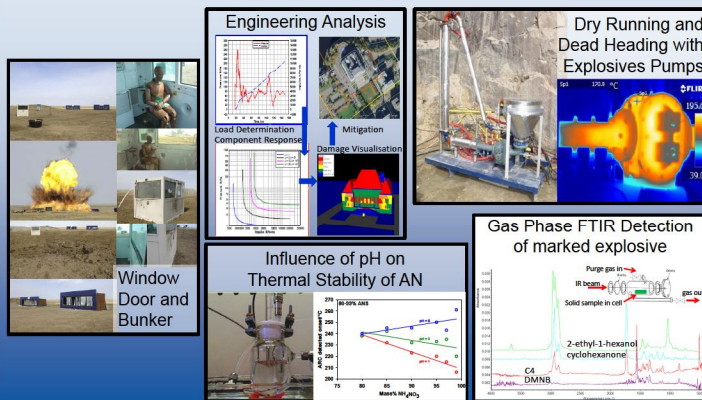


National and international partners and clients:

- commercial explosives manufacturers,
- fireworks manufacturers,
- mining companies,
- the defence industry,
- the chemicals industry,
- academics, OGDs,
- foreign laboratories.



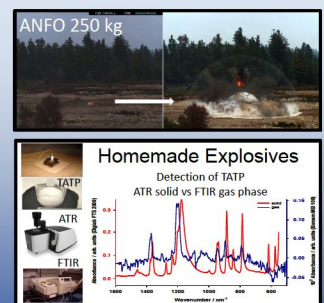
### CUSTOMIZED / COLLABORATIVE TESTS and EVALUATIONS



### STANDARDIZED TESTING



### RESEARCH



Located in a site at the west end of Canada's capital city Ottawa (Ontario)

- Several blast containment tanks used for controlled detonations (2.5 kg TNT).
- Access to larger field sites to perform larger scale explosives testing; Canadian Forces Base Petawawa Ontario (90 kg TNT) and Defense Research and Development Canada in Suffield Alberta (1000 kg TNT).

