

15 MAY 2018

09h00 to 18h00

Lobby outside Council Chamber
& Room A509



VIRTUAL REALITY

FOR NUCLEAR DISARMAMENT VERIFICATION

Virtual reality demonstration will be available from **09h00 to 18h00** in the lobby outside the Council Chamber and Room A509 as part of the workshop:

Beyond the Warhead: Rethinking Nuclear Disarmament Verification

15 May 2018

with
UNIDIR
Princeton University
RWTH Aachen University

NOTE: The workshop takes place from **13h15-14h50** in Room IX, UNOG.

As part of this open demonstration, participants will be able to assume the role of an inspector or host, and can apply a variety of virtual verification technologies to weapons and facilities as part of a disarmament verification process.

Virtual reality (VR) offers a new space to support policy makers and other experts in developing a shared, hands-on understanding of verification challenges.

VR provides a means to cooperatively create and interact in flexible environments to explore new

approaches, which can build confidence and lay a basis for live exercises and new initiatives.

VR offers opportunities for collaboration even under politically difficult circumstances. Through networking and co-presence, VR exercises can be planned and carried out from a distance and, given their nature, they avoid the difficulties of allowing foreign personnel into sensitive high-security sites and the risks of inadvertent disclosure of sensitive information.

VR has been successfully used to support a variety of applications relevant to nuclear safeguards, safety,

and security, including inspector training for the International Atomic Energy Agency (IAEA). Our research group is exploring the potential of VR environments for cooperation in these areas, as well as for developing solutions for nuclear disarmament, arms control and fissile material measures.

Our use of the portable HTC Vive VR system allows us to bring virtual inspection scenarios directly to our partners and events. This enables the simulation of new ideas to help gain greater insight on strengths and weaknesses, or to generate collective understanding of a concept.