

PROGRAMME

TUESDAY 15 OCTOBER 2024

OVERVIEW

9.00 - 09.15

Welcome note BEL
*Flottilja Admiral Baudouin
Coppieters de Gibson,
Director General RHID*

9.15 - 9.30

Welcome note US
*Col. Charles M. Seaberry
(Director of Army Futures
Command Forward
Element-Atlantic)*

9.30 - 9.50

BE Defence Research
& Technology
Program Overview
*Karen Pieters, a.i. Director
departement STRD*

9.50 - 10.10

US ONRG/DEVCOM
Program Overview
*Scott Walper (ONRG) &
Jonathon Brame
(US Army DEVCOM)*

10.10 - 10.30

Start-up Accelerators:
Catalysts for Defense
Technology Evolution
Julien Toussaint (WSL)

10.30 - 10.50

Testimonial from a US-
funded research project:
Evaluation of additively
manufactured ceramic
composites for heat
shield and control surface
applications
Bernd Helber (VKI)

10.50 - 11.30

Coffee break/
Networking session

LIGHTNING PRESENTATIONS SESSION 1 - AI/AUTONOMY

11.30 - 12.30

► Michael Ilsbroux
(Epic Blue NV)
*AI-driven Tactical Decision
Aids*

► Walter Driesen
(DotOcean)
*Towards Decentralized
Information Superiority*

► Adnan Shahid
(IMEC/UGent)
*Wireless Foundation
Models for Defense
Applications*

► Jasper Wouters (Magics
Technologies NV)
*Radiation-hard AI
processor to address
security challenges
in space*

► Mario Malizia
(Royal Military Academy)
*AI-Driven Autonomous
Systems for Hazardous
Terrain Operations*

► Tjorven Delabie (Arcsec)
*An autonomous
approach to detecting,
characterizing an
assessing threats to
space-based assets.*

12.30 - 14.00

Lunch break/
Networking session

SESSION 2 - AI/AUTONOMY & BIOTECHNOLOGY

14.00 - 15.00

► Dirk Van Rooy
(UAntwerpen)
*Bridging the gaps
between land, sea, and
air operations using
advanced human-
machine teaming and
large-scale simulated
war games*

► Nick Destrycker (EDGX)
*Reprogrammable
Reconnaissance Swarm*

► Maarten Slembruck
(UGent)
*Countering Advanced
Drones: Military Training
for the Next Generation*

► Jean-Paul Pirnay (Queen
Astrid Military Hospital)
*Towards an alternative
approach for personalized
phage therapy: instant
and on-site production
of synphages*

► Daniel Berckmans
(BioRICS NV)
*Military decisions based
on real-time monitored
readiness-to-perform*

15.00 - 15.20

Coffee break/
Networking session

SESSION 3 - MATERIAL SCIENCES, HYPERSONICS & QUANTUM

15.20 - 16.30

► Louis Dechambre
(Aerospace Lab)
*Development of high-
through-put, thin-film,
flexible III-V solar cell
blanket*

► Branko Kolaric (UMons)
*Advancing Eco-Friendly
Photonic Nanostructures*

► Alan Viladegut (VKI)
*Overview of new concepts
for Thermal Protection
System technologies*

► Prof. Edmond Joncheere
(University of Southern
California/Unamur)
*Trustworthiness in robust
hypersonic trajectory
planning*

► Bayindir H. Saracoglu (VKI)
*Unstart models for high
speed inlets for next
generation supersonic
and hypersonic propulsion*

► Guido Torrese
(Thales Belgium)
Quantum Antennas

► Raphaël Marion (Royal
Observatory of Belgium)
*The Belgian Time and
Frequency optical network
– A support infrastructure
for new techniques and
applications*

16.30 - 17.00

Closing remarks

17.30

Networking Reception