

PROGRAMME

TUESDAY 15 OCTOBER 2024

OVERVIEW

9.00 - 09.15

Welcome note BEL
*Flottilja Admiral
Baudouin Coppieters de
Gibson (DG 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 RHID 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 PRESENTATION SESSION 1 - AI/AUTONOMY

11.30 - 12.30

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

▶ Emma Claeys
(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 Maliza
(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 & BIOTECHNOLOG

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 Slembroeck
(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*

▶ Luis Diaz Allegue
(UAntwerpen)
*BioN-Fix: Nitrogen
fixation using purple
phototrophic bacteria*

▶ 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
& Benoit Deper
(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