

Overview of pitch session content

Below, you can find more information about the pitch sessions that will take place during the Research Day. The sessions will take place simultaneously at two different locations on campus. In the Frank De Winne auditorium (Block I) and in the Vandenplas auditorium (Block D). On the day itself, you will have the opportunity to choose which sessions you wish to attend.

AUDITORIUM FRANK DE WINNE - BLOCK I

9:00 – 9:10	Introduction KHID/RMA
9:10 – 10:10	PITCH SESSION #1
	MHQA <i>Exhaled breath analysis to determine physical and mental readiness of soldiers</i>
	RMA-CHCH <i>Energetic materials engineering: Research and industrial development</i>
	RMA-ABAL <i>Finite Element Analysis of Behind Armour and Helmet Blunt Trauma</i>
	DLD <i>New Generation of Green Energy Systems: Development and characterization of heat and power production in a BE Defense Base using hydrogen generated from direct sunlight and air</i>
	RMA-CISS <i>Development of a Tool to Predict the Performance and the Risk of Counter Small Unmanned Aerial System (C-sUAS)</i>
	DEFCOL-CSDS <i>Orbital Uncertainties: Navigating the New Geopolitical Realities of Space Militarization</i>
10:10-10:30	Coffee break
10:30-11:30	PITCH SESSION #2
	RMA-MECA <i>Aerial, Land and Maritime Robotics & Counter-robotics</i>
	DLD <i>Biological Laboratory of the Belgian Defence (DLD-Bio), where scientific knowledge becomes operational capability</i>
	DEFCOL-CSDS <i>Trends, Threats, and Geopolitical Rivalry in the Indo-Pacific</i>
	RMA-ABAL <i>Study of the aging of small calibre weapons</i>
	RMA-STEE <i>Testing of protective equipment using a new tool for the generation of simultaneous blast and fragment impact loading</i>
	RMA-DEML <i>Economic Statecraft of China: Starting from “what could possibly go wrong?” when collaborating with China highlighting all possible risks</i>
11:30	Moving to info stands, laboratories and the little Mess

AUDITORIUM VANDENPLAS - BLOCK D

9:00 – 9:05

Introduction RMA

9:05 – 10:10

PITCH SESSION #3

RMA-MECA

Research on Flows for Land-Air-Sea-Medical Topics

RMA-SCGW

Ethics and AI: From Moral Virtues to Duties?

RMA-Physics

Carnot Battery for Deployed Operating Base : answer to ever increasing electrification of the Battlefield – solution aside of the diesel-generators.

MHQA

Human impact exposure on high-speed boats of the special operations boat unit

RMA-SCGW

Frontline Inclusion: Perspectives from Ethnically Diverse Military Personnel

RMA-MWMW

A quick journey into the world of ALICE, our group dedicated to steganography and cryptography

RMA-CHCH

Turning humid air into renewable power (CATCHER project)

10:10-10:30

Coffee break

10:30-11:30

PITCH SESSION #4

KHID

Introductory presentation from room Frank De Winne (repetition)

RMA-LIFE

How is sleep research relevant for Defence?

RMA-MWMW – HYPER *Military applications of hyperspectral imaging*

RMA-COST

Belgian military casualties after 1945

RMA-CHCH

Synthesis, detection, and analysis of homemade explosives

DLD – TRACE

Analysis of Chemical Warfare Agents and Related Compounds for Technical Exploitation

RMA-CISS

Are deep neural networks trustworthy?

11:30

Moving to info stands, laboratories and the little Mess

**Research
Day** 28th MAY
2024

