



INTEGRATED AIR & MISSILE DEFENCE CENTER OF EXCELLENCE
IAMD COE
SOUDA AIR FORCE BASE
73100 CHANIA
GREECE



NU. 403

SUBJECT: **3rd IAMD COE ANNUAL CONFERENCE 2024 – COORDINATION LETTER**

DATE: 14 May 2024

REFERENCE: 3rd IAMD COE Annual Conference 2024 – Calling Letter

1. **Introduction:** With the document in reference, Integrated Air & Missile Defence Center of Excellence (IAMD CoE) has called for participation in its 3rd Annual Conference, which will take place at the premises of NMIOTC in Souda bay, Chania, Crete, Greece, from Wednesday 19th to Thursday 20th of June 2024.

2. **Theme:** “Integrated Air and Missile Defence: Shaping the Operational Environment to our Advantage”.

3. **Aim:** To build a picture of the current geostrategic military situation for Euro-Atlantic Allies and Partners. This will lead us to discuss the new era of Challenges, focusing on Emerging Threats, Hypersonic Weapons, and developments in Unmanned Aerial Systems (UAS), how NATO will respond to IAMD's current and future challenges, Integration and Interoperability, Effectiveness and Sustainability, as well as on Innovation, Experimentation and Wargaming.

4. **Schedule:** The provisional agenda is cited in Enclosure 1.

5. **Administrative details:** Administrative requirements and information are provided in Enclosure 2.

6. **Remarks:** An extension for the final day of registration has been announced until **Friday 7th June 2024**. Additional details and updated information for the conference are available on the website of the Centre: <https://iamd-coe.org/>

7. **Points of Contact:** For further information or clarifications please contact:

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8. Thank you in advance for your support to the 3rd IAMD CoE Annual Conference, we look forward to an interesting and fruitful event.



Brig. General (OF-6) Nikolaos MAKRYGIANNIS GRC (AF)
IAMD COE DIRECTOR

ENCLOSURES :

1. 3rd IAMD CoE Annual Conference Provisional Agenda
2. 3rd IAMD CoE Annual Conference Administrative Details

3 rd IAMD COE ANNUAL CONFERENCE 19-20 June 2024 Agenda		
19 June 24		
TIME (EEST)	TOPIC	SPEAKER
08:30-09:00	Registration – in processing	
09:00-09:10	Admin – Security Brief	NMIOTC Admin Affairs personnel
09:10-09:30	IAMD COE Welcome Address & Centre presentation	Brig Gen Nikolaos MAKRYGIANNIS GR (AF) IAMD CoE Director
09:30-09:50	Host Nation Welcome Address	Lt Gen Konstantinos ZOLOTAS GR (AF) HAFGS CoS
09:50-10:10	Keynote Speaker US Army IAMD: Integrated Fires	Col Christopher HILL US (A) Project Manager Integrated Fires Mission Command (IFMC) Program Executive Office - Missiles and Space (PEO-MS) US Army
10:10-10:30	Group Photo	
10:30-10:50	Coffee Break - Networking	
10:50-12:00	SESSION#1: The current Geostrategic situation and how it affects the evolution of NATO IAMD	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
10:50-11:10	How the growing strategic partnership between Russia and China is undermining the Alliance's eastward movement into the Asia-Pacific region?	PhD Charalampos PAPASOTIRIOU Professor of International Relations Panteion University Member of the Board of Directors of Institute of International Relations (IDIS)
11:10-11:30	What could be the roadmap of the necessary actions needed to act proactively and to help gradually master the art of dynamic escalation so that the Alliance can gain the operational advantage in the internationally precarious environment?	PhD Konstantinos IFANTIS Professor of International Relations Panteion University
11:30-11:50	The discovery and management of rare earths and their influence on the development of technology to support IAMD Operations	Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
11:50-12:00	Q/A PANEL#1: PhD PAPASOTIRIOU, PhD IFANTIS, Mr. MUNDAY	

12:00-13:30	Lunch Break	
13:30-15:00	SESSION#2 (part 1): Challenges in Current & Future Operational Environment Arena	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
13:30-13:50	The roadmap needed for the transformation and transition to a Multi Domain Operations (MDO) enabled Alliance. What Innovation, Experimentation and Wargaming do we need?	Brig Gen (Ret.) Mr. Donald FRYC NORTHROP GRUMMAN Mr. Wade MIZE NORTHROP GRUMMAN Chief Engineer
13:50-14:10	Strengthening the Alliance Cyber Defence capabilities to protect IAMD in Current & Future Operational Arena	Cpt (Ret.) Mr. Sozon A. LEVENTOPOULOS Former IAMD CoE SME ZONOS – SYSTEMS Managing Director
14:10-14:30	The Lessons Identified and Lessons Learned from the Conflict in Ukraine under an IAMD point of view	PhD Viktoriya FEDORCHAK Lecturer in War Studies Air Operations Division Swedish Defence University
14:30-14:50	Aerial Kill Web: Distributed Drone Operations supported by Netted Drone Sensors, Mesh Drone Networks and Cluster Drone Effects	Maj L. Ashley EBERHART US (AF) Director of Operations, USAFE Combat Training School
14:50-15:00	Q/A PANEL#2 (part 1):	Mr. Donald FRYC, Mr. MIZE, Maj EBERHART, Mr. LEVENTOPOULOS, PhD FEDORCHAK
15:00-15:20	Coffee Break - Networking	
15:20-16:50	SESSION#2 (part 2): Challenges in Current & Future Operational Environment Arena	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
15:20-15:40	Biomimeticism and Unmanned Systems	PhD Dimitrios TSAKIRIS Foundation for Research and Technology - Hellas (FORTH), Institute of Computer Science (ICS)
15:40-16:00	Emerging Capabilities for small Tactical UCAVs and Loitering Munitions	Brig Gen (Ret.) Mr. Fotios KAMPIOTIS Spirit World Group
16:00-16:20	Class I C-UAS from the HQ NATO Perspective	Mr. Sean BITTICK NATO HQ C-UAS WG Secretary
16:20-16:40	Consideration of the threat from CLASS I UAS and tactics to intercept them	Mr. Iain THOMSON Civ UK JCO Mr. Blake STONE Civ US NATO HQ National Delegation (US JCO)
16:40-16:50	Q/A PANEL#2 (part 2):	PhD TSAKIRIS, Mr. KAMPIOTIS, Mr. BITTICK, Mr. STONE, Mr. THOMSON
16:50-17:00	Wrap Up	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
END OF FIRST DAY		
20:00-22:30	SOCIAL EVENT	

20 June 24		
TIME (EEST)	TOPIC	SPEAKER
08:30-09:00	Coffee - Networking	
09:00-09:20	KEYNOTE Challenges in the current and future Arenas operational environment and steps needed to maintain a reliable Integrated Air and Missile Defence (IAMD)	Col Stuart HAY GB (A) Commander of 7 th Air Defence Group British Army
09:20-10:30	SESSION#2 (part 3): Challenges in Current & Future Operational Environment Arena (IAMD CoE Projects-Studies)	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
09:20-09:40	Analysis of the related Physical Phenomena and Aerodynamic Performance of Hypersonic Vehicle(s) and possible ways of exploiting those data in order to improve Surveillance Capabilities	PhD Ioannis NIKOLOS , Director of the Turbomachines & Fluid Dynamics Laboratory School of Production Engineering & Management, Technical University of Crete (TUC) Mr. Angelos KLOTHAKIS P.h.D Candidate in TUC
09:40-10:00	Laminar or Turbulent? A critical assessment of the physics of endoatmospheric hypersonic flight	PhD Vassilios THEOFILIS , Faculty of Aeronautics and Space Engineering Technion – Israel Institute of Technology
10:00-10:20	Comparative Analysis of System Architectures for Passive Radars in Drone Detection. The AIRE5G Project	PhD George TZAGKARAKIS Foundation for Research and Technology - Hellas (FORTH), Institute of Computer Science (ICS), Signal Processing Laboratory (SPL)
10:20-10:30	Q/A PANEL#2 (part 3):	PhD NIKOLOS, Mr. KLOTHAKIS, PhD THEOFILIS, PhD TSAGKARAKIS
10:30-10:50	Coffee Break - Networking	
10:50-12:20	SESSION#3: Strategies for Operational Advantage in IAMD	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
10:50-11:10	Discussing the Ethical and Legal implications of IAMD technologies and strategies. How can we implement the preemptive offensive option in support of IAMD operations?	Dr. Sidharth KAUSHAL Research Fellow, Sea Power Military Sciences Royal United Services Institute (RUSI)
11:10-11:30	From National Needs to Collective Strength: How the EDA Delivers UAS Solutions for European Defence that are also aligned with NATO	Dr. Joao CAETANO Project Officer on UAS Programmes European Defence Agency

11:30-11:50	EU's views and current efforts regarding access to and protection of the airspace	Lt Col Arturo ARRIBAS SANTIAGO ESP (AF) European Union Military Staff (EUMS)
11:50-12:10	How can we create the mindset and the means for military capabilities to synchronize across domains to achieve the operational advantage?	Lt Col (Ret.) Mrs. Wendi O. BROWN US Army Reserve, Wargame Planner for the U.S. Cyber Command
12:10-12:20	Q/A PANEL#3: Dr. KAUSHAL, Dr. CAETANO, Lt Col SANTIAGO, Mrs. BROWN	
12:20-13:50	Lunch Break	
13:50-15:50	SESSION#4: Advanced Technologies in IAMD	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
13:50-14:10	The Fundamental Concepts of Modelling and Simulation in Counter-UAS	Lt Col Josef CASAR, Deputy Head of Air Defence Department, Czech University of Defence, Brno, Czech Republic
14:10-14:30	Automating Geographic Content; Underpinning IAMD decisions with AI and Data Fusion	Mr. Richard GOODMAN EMEA Defence Lead Government, Transportation & Defence Safety, Infrastructure & Geospatial division HEXAGON
14:30-14:50	Interoperability and Integration: Multi - Mission Battery (MMB): Providing Enhanced Interoperability for the Composite Task Force	Mr. Strauss WILL RAYTHEON Technology Director for the Short and Medium Range Ground Based Air Defense (SMGBAD)
14:50-15:10	NSPA Modular Ground-Based Air Defence High Visibility Project	Mr. Emmanuel D'ALMEIDA NSPA Modular GBAD Principal Project Officer
15:10-15:20	Q/A PANEL#4: Lt Col CASAR, Mr. GOODMAN, Mr. WILL, Mr. D'ALMEIDA	
15:20-15:40	Coffee Break - Networking	
15:40-15:50	Wrap Up	Moderator: Wg Cdr (Ret.) Mr. Rob MUNDAY NIAG SG-288 & 290 Rapporteur
15:50-16:00	Farewell	Brig Gen Nikolaos MAKRYGIANNIS GR (AF) IAMD CoE Director
END OF CONFERENCE		

3rd IAMD CoE Annual Conference Administrative Details

1. **Schedule:** The conference will be conducted over two days, from Wednesday 19th to Thursday 20th of June 2024. It is advised to use Tuesday 18th of June 2024 (or earlier) for travelling and in processing and Friday 21st of June 2024 (or later) as travel days. The projected schedule of the conference will be updated regularly on the IAMD CoE web page <https://iamd-coe.org/> A provisional agenda of the conference is as per Enclosure 1, while a final detailed Agenda will be issued along with the joining instructions, ten days before the event.
2. **Participants:** Registration is open to all interested participants. We anticipate for participation from NATO, Partner Nations, Military and International Organizations, Non-Governmental Organizations, CoEs, Academia and Defence Industry as well as the broader IAMD Community of Interest. Please feel free to disseminate this invitation to persons that you deem relevant and interested to attend.
3. **Classification:** The conference has no classification marking and all contents will be releasable to public. The conference will be held under the **Chatham House Rule**.
4. **Attire:** The attire for the Ice Braker event will be Civilian attire casual (jacket-no tie). The attire for the Conference (19th & 20th of June 2024) will be summer service uniform (NATO Class A) for the speakers, working dress (NATO Class B- short sleeved shirt, open neck) for the military personnel and Civilian attire casual (jacket or shirt-no tie) for the civilians.
5. **Registration:** Registration should be made through the IAMD CoE official web site <https://www.iamd-coe.org/> no later than **Friday 7th June 2023** (later registration submissions may be accepted on an individual basis). Early registrations are very much appreciated to support our planning.
6. **Lodging and Transportation:** Attendees are responsible for the arrangement of their own accommodation and transportation from/to Chania International Airport. Taxi and public bus services are available. Transportation on the 19th & 20th of June 2024 to/from the NMOTC premises, where the conference is going to take place and specified

pick-up points in the city of Chania, will be provided during the conference days. Detailed joining instructions will be issued in due course and uploaded on the conference site. A list of recommended hotels in Chania city is included herein. Special prices have been negotiated for IAMDCoE's guests and will apply to participants only for direct booking with each hotel and by using the promotional codes listed below:

a. The CHANIA Hotel 5*. Use the link: www.thechaniahotel.com and Booking code: **IAMDCOE24** or send Email: reservations@thechaniahotel.com using the same booking code or call at tel.: +30 28210 90002 / +30 28210 90003.

b. KYDON 4* hotel. Use the link: www.kydonhotel.com and Booking code: **IAMDCOE24**, or send Email: info@kydonhotel.gr using the same booking code or call at tel.:+302821052280.

c. SAMARIA 4* hotel. Use the link: www.samariahotel.gr and Booking code: **IAMDCOE24**, or via sending Email: reservations@samariahotel.gr using the same booking code, or call at tel.:+302821038600.

d. ARKADI 3* hotel. Use the link: www.arkadi-hotel.gr and Booking Code: **IAMDCOE24**, or send Email: info@arkadi-hotel.gr using the same booking code, or call at tel.:+302821090181.

e. KRITI 3* hotel. Use the link: www.kriti-hotel.gr and Booking Code: **IAMDCOE24**, or send Email: info@kriti-hotel.gr using the same booking code, or call at tel.:+302821051881.

f. PORTO VENEZIANO 3* hotel. Send an Email: hotel@portoveneziano.gr mentioning the Booking Code: **IAMDCOE24**, or call tel.: +302821027100 referring the same booking code.

g. CIVITEL AKALI 3* hotel. Send an Email: <https://www.akali-hotel.gr/el/> mentioning the Booking Code: **IAMDCOE24**, or call tel.: +302821092872 referring the same booking code.

7. **Medical Service:** First aid and emergency medical support is offered by NMIOTC paramedic and local NAVAL Hospital. However, for all other situations, medical expenses must be paid by the individuals, or their insurance agencies. All participants are advised to have appropriate medical insurance.
8. **Conference fee:** The Conference fee is **110€** for each attendee. The fee should be paid by bank (credit – debit) card non later than **07 June 2024** through IAMDCOE electronic platform, in order to complete the registration process (An official receipt will be provided).
9. **Social Event:** IAMDCOE will host an Ice Braker Event, on 19th of June (20:00-22:30). Personal ID should be available for identification purposes.
10. **Visa Requirements:** Participants or their supervising authorities are responsible for visa arrangements for their personnel. It is advised that participants should contact their national embassies/consulates in Greece or the Greek Military Attachés at the Greek Embassies in their respective capitals for relevant information.