



Association Aéronautique
et Astronautique de France

I I A I M I D 13

CALL FOR PAPERS

13th 3AF INTERNATIONAL CONFERENCE INTEGRATED AIR AND MISSILE DEFENCE

MAY 14-16, 2019 ROME, ITALY

PROGRAMME COMMITTEE MEMBERS

CONFERENCE CO-CHAIRS :

CHAM-MEILHAC Véronique	MBDA	France
DEVOUASSOUX Yannick	ArianeGroup	France
DINI Luc	Thales	France

AGIRNAS Emre	Aselsan	Turkey
DELORY Stéphane	FRS	France
FARINELLI Mauro	PARSONS	USA
FRIEDBERGER Regine	GermanMod	Germany
FUJITO Wayne	DAC	USA
HAIMOVICH Amit	IAI	Israel
HENRY Jean-Pierre	DGA	France
HICKEY Emily Rose	ATK	USA
HORE Bryan	BAE Systems	United Kingdom
INSALACO Steve	Leidos	USA
KLINCK Heino	Northrop Grumman	USA
KREUTZER Franz	IABG	Germany

LE CLEACH Philippe	Naval-Group	France
MERBAUM Alan	Lockheed Martin	USA
NIGRO Edward	Boeing	USA
PATHY Suvarna	Raytheon	USA
PEDERSEN Peder	Weibel	Denmark
RUBIN Uzi	BSCSS	Israel
VAN DER GRAAFF Bart	Thales	The Netherlands
VAN-HOOF Jan	TNO	The Netherlands
VANDENSAVEL Denis	NATO	The Netherlands
WELMER Bert	DutchMOD	The Netherlands
YOUNG Scott	Aerojet	USA



IAMD13 OBJECTIVES

The NATO Missile Defense program (Active Layered Theater Ballistic Missile Defense, now BMD) was created on the premises of a common assessment of the ballistic threat by NATO countries. This assessment is to be periodically updated so that the NATO missile defense architecture remains consistent with the actual threat.

November 2010, the Lisbon NATO Summit endorses the extension of the mission to the defense of the deployed Forces against ballistic missiles (Theater Defense), which brings together Theater Defense and Alliance Territory Defense. The European nations are consequently welcome to participate to this new mission, the form of their participation being left to each nation to be assessed.

May 2012, the NATO Summit validates the principle of "Smart Defense", recognizes the principle of "burden sharing" and declares operational a first "BMD intermediate capability" with the only US assets of the first EPAA phase.

2014, the Newport NATO Summit once again in its conclusions invites the nations to a global interoperability initiative through multinational cooperation, including with partner nations outside NATO. A renewed call to invest into defense is also made. The BMD program is progressing, its IOC has just been declared at the Warsaw Summit.

The emergence of new threats such as the maneuvering ballistic missiles and the high supersonic / hypersonic cruise missiles or hypersonic glide vehicles present new challenges to the BMD capability.

The emergence of these new threats could indeed also represent the opportunity for Europe to contribute and complement the NATO BMD mission, to share the burden.

Defense solutions have no choice but to address the full spectrum of threats. Beyond the obvious request of operational efficiency against each type of threat, cost is one of the main challenges for Defense. Sensors and effectors should, do and shall therefore be able to address simultaneously several threat categories. It raises daunting technological, engineering and operational challenges. These issues remain at the forefront of the battle commanders concerns, as ballistic missiles and air threats are daily used, by state and non-state actors.

Therefore, for some years, it seems appropriate that our Missile Defense challenges be considered within the wider frame of IAMD; this is why we decided to extend our Missile Defense conference spectrum to Air Defense and rename it "3AF Integrated Air and Missile Defense conference".

The 3AF Integrated Air and Missile Defence conference is once again the perfect opportunity to continue the discussion on those issues, where international cooperation is key to meet the associated challenges: within NATO in Europe, in bilateral or multilateral approaches in other regions of the world.

The 13th 3AF Integrated Air and Missile Defence conference will take place in Rome (Italy) from 14 to 16 May 2019. We invite the air and missile defense community to share and discuss air and missile defense challenges around the globe, reinforce ties and explore new ideas to promote air and missile defense solutions.

Once again, a mix of technical and non-technical, contributed and invited papers, and status of the many existing IAMD programs will be presented, including VIPs' talks and specific plenary sessions. Sponsored by industry, the conference includes an exhibition where companies will display their systems and technologies. It is an unrivalled opportunity to meet customers, suppliers and decision makers, to exchange facts and opinions, to initiate and develop business and to listen to papers presented by world experts on IAMD challenges.

We are looking forward to meeting you in May 2019 and to your contribution to our continuing dialogue!

Yours Faithfully,

Véronique CHAM-MEILHAC, Yannick DEVOUASSOUX and Luc DINI
13th 3AF International Conference on Integrated Air and Missile Defence IAMD13
Programme Committee co-chairs

The following questions will in particular be raised:

- What is the current threat landscape and how is it likely to evolve?
- How will the NATO MD review affect the NATO programme?
- How will the situation evolve between NATO and its partners and neighbors?
- How will the US Missile Defence Review impact policies in the US and with allies?
- What are the high-reward cooperation opportunities? What is the impact of the European Defence Fund?
- How will IAMD developments across the globe affect the technological landscape? The competitive balance?
- What role will directed energy weapons play in the future?
- As space is becoming a warfighting domain, how will space surveillance capabilities support IAMD and vice-versa?
- How can the return of experience from the various developments of systems and technologies by the US, Europe, the Middle East and Asia be shared and common efforts be initiated?
- How does evolve the relationship between IAMD, MD and deterrence.

CALL FOR PAPERS

IAMD13 TOPICS

We invite the submission of quality papers on the topics listed below :

1. Ballistic & Hypersonic Missile threat - Dual threat (ABT & TBM)
2. NATO BMD - NATO IAMD : CONOPS & Architectures perspectives
3. International & European Policy and Cooperation
4. National Programs and RETEX outside NATO
5. Industrial Capabilities world wide - Models of Cooperation
6. Defence Architectures & Integration of Air and Missile Defence
7. Command and Control - C2 for Dual Architectures: approach and constraints
8. Sensor systems & Sensor nettings, including Space
9. Interceptors & Weapons systems and technologies
10. Testing, Targets and Demonstration programmes
11. Modelling & Simulation
12. Lethality & Limiting the consequences of intercept
13. Innovative cost saving approaches and procurement
14. Training - Dual training vs Distributed architectures
15. CRAM
16. Directed Energy Weapons
17. Counter UAV
18. Space Security & Defence
19. Cybersecurity

ADVICE TO AUTHORS

- The selected papers will be presented in a 15 minutes speech at the conference (+5 minutes for Q&A).
- An abstract will be selected based on the importance and originality of the subject addressed, on its relevance to the conference theme, on the clarity of its expression.
- The abstract should be a “stand alone” summary that can be used in the compilation of abstracts.
- The abstract should be in English, and no longer than 400 words.
- The abstract should summarize the main objectives of the paper to be presented and outline its conclusions.
- Work that has been presented elsewhere, and not updated, will be considered inappropriate.

**The abstract should be submitted on:
www.3af-integratedairmissiledefence.com**

The submitted papers must be unclassified.

ABSTRACT DEADLINE: 01 FEBRUARY 2019

Please note that the Conference's official language is English. All documents must be in English.

The main purpose of the abstract is to give the Programme Committee information to assist them in selecting the papers to be presented at the Conference.

KEY DATES FOR IAMD13 CONFERENCE

Abstract Deposit Deadline	01 February 2019
Author Notification	01 March 2019
Online Registration	04 March 2019
Preliminary Programme	11 March 2019
Final Manuscript Deadline	22 April 2019
IAMD13 Conference	14 - 16 May 2019

Authors are required to register and settle registration fees by 29 April 2019

IAMD13 CONFERENCE VENUE

The 13th 3AF International Conference on Integrated Air and Missile Defence will be held :

A. Roma Lifestyle Hotel and Conference Center
Via Giorgio Zoega, 59
00164 Rome, Italy

GENERAL INFORMATION

Modern and old, past and present go side by side, all the time.

Whether you are in Rome for 3 days, 3 weeks or 3 months, be prepared to step into the world's biggest open air museum. You can decide to follow the typical tourist paths or you can be lucky or brave enough to go off the usual tracks. One way or the other, Rome will seduce you and it will hardly leave you indifferent. It will surprise you, like a beautiful middle aged woman that has still plenty to offer and whose beauty is just been merely blurred by time passing by.

Rome is one of world's most photogenic cities - not surprising when you remember what's here - The Vatican, the Trevi Fountain, St Peter's Square, Spanish Steps, Colosseum... Whether you spend your time sightseeing, or lazing in cafés watching the world go by, it will be your turn to feature in your very own Roman Holiday.

ACCESS

Rome by airplane

Rome has two airports - Fiumicino (Leonardo da Vinci) and Ciampino.

Fiumicino

This is Rome's main airport and is well-connected with the centre during the day by an express train.

The express train between Fiumicino Airport and Stazione Termini (Rome's main train station) costs u 9.50 and the journey takes about 30 minutes. The train departs from and arrives at Termini station at track n.27 and runs from 6.30am till 11.30pm.

Ciampino

Rome's smaller airport, is mostly used by charter flights and budget airlines.

To get to the centre from this airport, take COTRAL bus, get off at Metro A: Anagnina station, then to Termini Station. COTRAL bus runs every 30 minutes, until 11pm. The only way how to get to Rome after this time is to take taxi.



IAMD13 PARTNERSHIP & EXHIBITION

Any private company or laboratory wishing to make an impact in today's Missile and Defence industry should seize this unique opportunity to communicate towards a very specialized audience, while demonstrating its know-how in a specific field of expertise and developing its professional network.

For any further information on partnership and exhibition packages, please contact iamd2019@3af.fr

IAMD13 SECRETARIAT

3AF - 6, Rue Galilée - 75116 PARIS - France

For any further information, feel free to contact the IAMD13 Secretariat :

Tel : +33 (0)1.56.64.12.30 - Email : iamd2019@3af.fr

Web : www.3af-integratedairmissiledefence.com