16th Joint Air and Space Power Conference

The Joint Air & Space Power Conference is organized annually by the NATO Joint Air Power Competence Centre. In 2020 the conference will take place from 8–10 December 2020, in Essen, Germany.

This year’s conference will investigate how emerging technologies can be leveraged to support NATO’s Air & Space Power, in particular in the areas of Space, Battlespace Management and Competition in the Information Environment. We also endeavour to look further ahead into future developments allowing for an excellent forum for debate and discussion.

The Joint Air Power Competence Centre is the first Centre of Excellence established for and accredited by NATO. Since 2005, the JAPCC has been providing expertise in Air and Space Power to NATO and its members.

Why Should You Attend?

Top experts from the political, academic, military and media spheres will debate, in four themed panels, the threats and questions raised inside this trifold, and how the Alliance and its partners might best evolve and leverage Air and Space capabilities to enhance and sustain NATO’s three core tasks of Collective Defence, Crisis Management, and Cooperative Security.

This is your opportunity to hear from senior military and civilian leaders from across NATO and the nations on this topic of extreme importance, and to engage and contribute to a robust discussion aimed at strengthening and enhancing the Alliance.

To register for the 2020 Conference and see additional information, please visit us online at:

https://www.japcc.org/conference

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8–10 December 2020

Contact and reserve your seat:
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www.japcc.org/conference
Leveraging **Emerging Technologies** in Support of NATO Air & Space Power

**Space**

In the closing days of 2019 NATO recognized Space as an operational domain, referencing its importance in keeping the Alliance safe and in addressing security challenges, in line with international law. As NATO continues to integrate terrestrial and extra-terrestrial operations, what will be NATO’s role in ensuring freedom of movement in and through Space? Not only to ensure access to ever-increasingly important Space-based services to terrestrial operations, but also to enable operations in Space in pursuit of freedom of movement for extra-terrestrial operations.

**Competing in the Information Environment**

Great power competition involves myriad activities that generally occur below the threshold of actual armed conflict. This range between pervasive peace and all-out war is sometimes referred to as the gray zone, and the battles here are increasingly being fought using information and information technology to influence public perceptions and exert influence on and through both military and non-military instruments of power. The information flow that enables these gray zone exchanges is inextricably reliant on access to and security of the Electromagnetic Spectrum (EMS) to allow for the use of communication technologies through which the information flow occurs.

**Battlespace Management**

Today the Battlespace has become more complicated than it ever was in the past. This is due to the year to year military use of ever more sophisticated high-tech equipment in each operational domain in order to be able to gain an advantage during military operations to ensure mission success. Currently those who possess the most up-to-date information, and are able to better manage that information, are more likely to be one step ahead in congested and contested Battlespace, and that Battlespace now includes Space and Cyberspace, in addition to the traditional domains of Land, Sea, and Air.

**Future Developments**

Many of today’s military conflicts are still largely contested with predominately Industrial Age forces and mind-set … both of which are increasingly changing. The exponential growth in technology, coupled with increasing applications, and understanding, of those technologies is rapidly changing the tools we use in our daily lives and in the conduct of military operations. As NATO transitions more firmly into the Information Age, the tools it utilizes to address security issues and ensure the safety of the Alliance have the potential to increasingly alter the way in which NATO goes about its business.