

Programme overview

The conference took place at the LINDNER Hotel, right in the heart of the historical part of Prague.

Future Forces Conference 1st day

1. Challenges of modern air training and system solution

Aviation has always played and continues to play a key role in the modern history of warfare. The appearance of platforms, which is primarily dependent on aerodynamic principles, has not changed fundamentally. Weapon systems and avionics have gradually evolved. The dynamic development of information technologies, the introduction of elements of artificial intelligence, makes the aircraft (platform) a complete system that becomes an information hub not only for air force assets, but for the entire armed forces.

It is natural that the preparation of pilots, their selection and training will also undergo changes. Increasingly, the pilot will take the position of operator. The control of aircraft will become increasingly automated, but this does not mean that the requirement for spatial orientation, quick decision-making skills under time pressure and physical fitness will not be required.

The first panel will mainly feature user representatives. We anticipate presentations by representatives of the Air Force command who will primarily define the requirements for pilots (and other aviation personnel). Other invited panelists will be representatives of academic institutions or training centers that develop academic and training syllabi based on the requirements.

Main topics that have been discussed:

- *Introduction of pilot's training system: The training pipeline*
- *Present challenges in training system and anticipated changes to it*
- *Selection of pilot candidates, required entry education, screening process, special tools or methods used for initial screening (i.e. simulators, performance screening etc.), overall success rate of candidate selection process.*
- Synthetic training technologies used through training process. Synthetic vs Airborne training ratio.
- Methods/ Tools to evaluate training effectiveness and individual trainee performance.

2. Pilot recruitment a major challenge for the Air Forces

There is no doubt that recruitment of new pilots is becoming one of the challenges that Air Force commanders are forced to pay increasing attention to. The unfavorable situation of pilot shortage is due to several factors. First, the pilot profession is no longer as popular among young people as it was in previous decades. The second factor is the increasing demands on training and, last but not least, the declining physical readiness of today's young generation plays a major role.

All these factors are forcing Air Force leadership to adopt new and often novel solutions. The individual panelists will provide their perspectives on an assessment of the current situation but will also offer their suggestions within their areas of expertise on how the unfavorable personnel shortage situation can be addressed. The panel is composed of both user representatives defining aviation personnel requirements, as well as representatives from academia and Air Force personnel involved in pilot recruitment and selection.

Main topics that have been discussed:

- *Challenges for the Human Resources*
- *Z generation new challenge for the air force leadership*
- *Recruitment procedures*
- *Screening process in the Air Force*

3. Industry Engagement in Future Air Force personnel

With the development of tactical aircraft capabilities and the improvement of the security situation, there has been a gradual reduction in the number of tactical aircraft and thus pilots and the resulting requirement for fewer pilots in training and education facilities. The logical consequence is a higher cost of flight training.

The private sector has responded quite flexibly to the current situation and offers its capabilities in the field of flight training of military pilots. Private sector involvement is becoming an increasingly used option for pilot training. However, close cooperation between the Air Force and representatives of private organizations is essential to achieve a quality outcome.

The panel will include both user (Air Force), private training organization representatives and representatives of aircraft industries.

Main area that should be discussed:

- *What are the main reasons that lead defence departments to use the private sector to provide aviation training?*
- *the capabilities and capacities of the private sector in the provision of flight training*
- *assessing the effectiveness of the provision of flight training by private entities*

- *the quality of flight training provided by the private sector*

PANEL DISCUSSION Challenges for the commanders in the selection of pilots for the new generation aircraft

At the end of the conference, a panel discussion was held as a summary of all the areas discussed during the conference. The panel discussion was attended by the representative of the Czech Air Force Colonel Michal Kudyn, the Commander of the Hungarian Air Force major general Nándor Kilián, the representative of the Greek Air Force Lieutenant General Themistoklis Bourolias

The panel discussion was moderated by the chairman of the conference Brigadier General in reserve Libor Štefánik

Conference Programme 1st day

Time	ACTIVITY
8:00- 8:20	CHAIRMAN'S OPENING REMARKS
8:20 - 8:25	WELCOMING BY Major General Petr Čepelka - Commander of the Czech Air Forces
8:25 - 8:30	WELCOMING BY Viktor Sotona CEO AERO VODOCHODY
8:35	CHALLENGES OF MODERN AIR TRAINING AND SYSTEM SOLUTION
8:35 - 9:00	Czech Air Force development in the near future - BG Jaroslav Mika - CzAF
9:00 - 9:25	Czech Air Force Training - Col Michal Kudyn - CzAF
9:25 - 9:50	German Air Force Jet training requirements - current and future Col Bernhard Hey - GER
9:50 - 10:15	Undergraduate Pilot Training: U.S. Air Force Perspective - Col Richard P. Carver - USAF
10:15 - 10:30	Coffee break
10:30 - 10:50	Royal Air Force (RAF) Presentation - Air Commodore Ian Sharrocks - RAF
10:50- 11:15	Military flight training - NATO requirement Colonel - Radek Pilař - Cz Air Force
11:15 - 12:30	PANEL DISCUSSION (moderator Major General (ret) Bohuslav DVOŘÁK) Innovation of pilot training for real world flying in future multidomain operation
12:30 - 13:30	Lunch
13:30 - 13:50	Industry presentation - Aero Vodochody
13:50	PILOT RECRUITMENT A MAJOR CHALLENGE FOR THE AIR FORCES, QUALITATIVE AND QUANTITATIVE REQUIREMENTS - SCREENING

	PROCESS
13:50 - 14:25	Keynote presentation - Col. Tomáš Novotný - Slovak Air Force
14:25 - 14:50	Z generation Challenge for the future - Miloslav Bauer - UNOB
14:50 - 15:15	ItAF Recruitment and Selection Process - Col. Giovanni M. Pasqualucci -ItAF
15:15 - 15:40	Pilot recruitment a major challenge for the air forces screening and training process in the Austrian Air Force - Col. Roland Miedler
15:40 - 15:55	Coffee break
15:55 - 16:20	Fighter pilot recruitment and retention - Col. Osama al-Sawalqa - JORDAN AIR FORCE
16:20 - 16:50	PANEL DISCUSSION RECRUITMENT (moderator Col. (ret) Petr Tichy)
16:50 - 16:55	CHAIRMAN'S SUMMARY REMARKS
19:30 - 22:00	Czech Pub NIGHT SPONORED BY LOM PRAHA a.s.

Conference Programme 2nd day

Time	ACTIVITY
8:30 - 8:35	CHAIRMAN'S OPENING REMARKS
8:35	INDUSTRY ENGAGEMENT IN TRAINING OF FUTURE AIR FORCE PERSONNEL
8:35 - 9:00	Industry presentation - Lockheed Martin
9:00 - 9:25	Keynote presentation - Radka Konderlová DG Industrial Co-operation Division of the Ministry of Defence
9:25 - 9:50	Training providers presentation - Col (ret) Jaroslav Špaček CLV Director
9:50 - 10:15	International organization engagement in military training - EDA Pavel Heřman
10:15 - 10:30	Coffee break
10:30 - 10:55	MIL PRESENTATION - Hungary - BG Csaba Ugrik
10:55 - 11:20	AF Tactics system - Ivo Gamba - VR Group technical Director
11:20 - 11:45	Industry presentation - SAAB
11:45 - 12:45	Lunch
12:45 - 13:30	PANEL DISCUSSION (moderator: Daniel Koštoval) New trends in the use of simulation technologies and the use of artificial intelligence elements in training systems
13:30 - 14:00	Coffee break

14:00	Challenges of modern air training and system solution - National Views
14:00 – 14:25	Pilot training in Nigerian Air Force. Assessment Air Marshal HB Abubakar
14:25 – 14:50	Introducing the Ethiopian Air Force operational and training system Col Meseret Getachew
14:50 - 15:10	Industry presentation - OMNIPOL
15:10 - 15:30	PANEL DISCUSSION (moderator: brigadier General (ret) Libor ŠTEFÁNIK) Challenges for the commanders in the selection of pilots for the new generation aircraft
15:30	CHAIRMAN'S SUMMARY REMARKS