

## **RELATED INTERNET SOURCES**

### **USEFUL SITES, PORTALS AND ORGANIZATIONS**

#### **NATO's Allied Command Transformation**

[www.act.nato.int](http://www.act.nato.int)

Allied Command Transformation's (ACT) mission is to support NATO's transformation. Also, ACT has a decisive role in providing the framework and instruction for NATO training.

Vision Statement: "We are NATO's forcing agent for change, leading the continuous improvement of Alliance capabilities to uphold NATO's global security interests."

#### **U.S. Department of Defense Office of Force Transformation**

[www.oft.osd.mil](http://www.oft.osd.mil)

Office created within the U.S. DOD to support the transformation of U.S. military capabilities.

#### **The Bundeswehr Transformation Center**

[www.zentrum-transformation.bundeswehr.de/portal/a/ztransfbw](http://www.zentrum-transformation.bundeswehr.de/portal/a/ztransfbw)

The Bundeswehr Transformation center supports the Federal Ministry of Defense in tasks related to the central management of the transformation process, to the major task of Bundeswehr planning, to planning, preparation, execution and follow-up of missions, exercises and experiments as well as to operations research and modeling and simulation. Moreover, the Bundeswehr Transformation centre supports politico-military planning and decision-making processes of the Ministry of Defense.

The Center has three divisions: Transformation of Bundeswehr, Concept Development and Experimentation, and Operations Research/ Modeling and Simulation.

## **U.S. Department of Defense Website for Transformation**

[www.defenselink.mil/transformation/](http://www.defenselink.mil/transformation/)

This website represents the main U.S. DOD resource for news on military transformation.

## **Air War College Transformation Links**

[www.au.af.mil/au/awc/awcgate/awc-chng.htm](http://www.au.af.mil/au/awc/awcgate/awc-chng.htm)

## **National Defense University Transformation Links**

<http://merln.ndu.edu/index.cfm?secID=118&pageID=3&type=section>

## **What is Force Transformation?**

[www.oft.osd.mil/what\\_is\\_transformation.cfm](http://www.oft.osd.mil/what_is_transformation.cfm)

The way in which Vice Admiral (ret.) Arthur K. Cebrowski, Director of Office of Force Transformation, defined force transformation.

# **CONFERENCES AND ON-LINE PUBLICATIONS**

## **Transformation Trends**

<http://www.oft.osd.mil/library/library.cfm?libcol=9>

This is an initiative by the Office of Force Transformation, U.S. Department of Defense, to keep decision makers involved and interested in transformation abreast of the latest developments across the department, the military services, commercial industry, and technology worlds. It is intended as a service to promote knowledge on variety of topics, related to transformation.

The following is a sample of topics, appearing in *Transformation Trends*:

- US Military Transformation: Decision Rules
- Transformation's Trajectory
- Sea Basing Issues
- Wolf Pac Distributed Operations Paper
- Cebrowski Interview with Ubiquity
- Mobilus Initiative: Airships as a New Aerospace Industry Segment
- Why Transform?

- Transformation and the Changing Character of War?
- Transforming Warfare
- Transforming Transformation
- Fantasy to Prophecy: The Need for a New Lighter-Than-Air Aerospace Capability
- Implementation of Network Centric Warfare
- Understanding Transformation.

### **U.S. Air Force Transformation Flight Plan 2004**

[www.of.t.osd.mil/library/library\\_files/document\\_385\\_2004\\_USAF\\_Transformation\\_Flight\\_Plan.pdf](http://www.of.t.osd.mil/library/library_files/document_385_2004_USAF_Transformation_Flight_Plan.pdf)

The Flight Plan is the Air Force's transformation roadmap submission to the Office of Force Transformation as required by the Secretary of Defense's Transformation Planning Guidance. It is a reporting document that shows how ongoing and planned Air Force transformation efforts are addressing this guidance. It is intended to reflect decisions, information, and initiatives already made and/or approved by the Air Force capability-based planning, programming, and budgeting process.

### **Air Force Transformation: The Edge**

[www.af.mil/library/transformation/edge.pdf](http://www.af.mil/library/transformation/edge.pdf)

The Edge is a brief introduction to the many transformational initiatives underway within the United States Air Force and further detailed in the U.S. Air Force Transformation Flight Plan.

### **Transforming the Royal Air Force**

[www.raf.mod.uk/rafcms/mediafiles/628864A8\\_EC65\\_BEBF\\_C4C64EC02534493A.pdf](http://www.raf.mod.uk/rafcms/mediafiles/628864A8_EC65_BEBF_C4C64EC02534493A.pdf)

### **US Fighter Modernization Plans: Near-Term Choices**

[www.csbaonline.org/4Publications/PubLibrary/R.20070620.US\\_Fighter\\_Moderni/R.20070620.US\\_Fighter\\_Moderni.pdf](http://www.csbaonline.org/4Publications/PubLibrary/R.20070620.US_Fighter_Moderni/R.20070620.US_Fighter_Moderni.pdf)

This report by Steven Kosiak and Barry Watts (Center for Strategic and Budgetary Assessments, 2007) explores the near-term modernization choices now facing the U.S. Department of Defense in fixed-wing air power.

**Air Force Transformation: Past, Present, and Future**

[www.airpower.au.af.mil/airchronicles/apj/apj01/fal01/phifal01.html](http://www.airpower.au.af.mil/airchronicles/apj/apj01/fal01/phifal01.html)

This is an article by Maj Gen David A. Deptula, published in *Aerospace Power Journal*, Fall 2001. General Deptula is director, Air Force Quadrennial Defense Review, Headquarters USAF. He was the principal planner for the coalition's offensive air campaign during Operation Desert Storm and director of the Expeditionary Aerospace Force implementation. This article, drawn from General Deptula's testimony to the House Armed Services Committee, discusses Air Force transformation, delineating not only the definition of the term, but also its ramifications for the military services' structural and operational enhancement.

**Airpower, Jointness, and Transformation**

[www.airpower.au.af.mil/airchronicles/apj/apj03/win03/fought.html](http://www.airpower.au.af.mil/airchronicles/apj/apj03/win03/fought.html)

This is an article by Dr. Stephen O. Fought and Col O. Scott Key, USAF, published in *Air & Space Power Journal*, Winter 2003. The article reflects the discussions and writings of the AWC professors and students participating in an Air War College Seminar – Seminar Six's Warfighting course. This seminar, class of 2003, studied, debated, and developed personal convictions about the argument that in the second century of manned flight, airpower may well be the transforming piece of the jointness puzzle – the instrument through which ground and naval forces could be integrated. Grounded in the history of the evolution of airpower theory, this seminar developed a new definition for a “transformational system” to focus on the future of war fighting and force structure.

**International Conference on Transformation, Modernization and Building Expeditionary Capabilities of the Bulgarian Air Force, 2-3 October 2007, Park Hotel Sankt Petersburg, Plovdiv, Bulgaria**

[www.afcea.bg/conferences.php](http://www.afcea.bg/conferences.php)

AFCEA Chapter Varna in cooperation with the Bulgarian Air Force will host an International Conference & Exhibition in Plovdiv on 2<sup>nd</sup> and 3<sup>rd</sup> of October 2007, on the eve of the Official Day of the Bulgarian Air Force. The conference agenda will cover the following main themes:

- The new missions, roles, and required operational capabilities of the Bulgarian Air Force;
- Modernization plans and programs of the Bulgarian Air Force;
- Technologies for advanced air, air defense, and space capabilities;

- Building expeditionary capabilities of the Bulgarian Air Force.

Confirmed speakers: Lt. Gen. Jo Godderij, Director, NATO International Military Staff; Vice Admiral Emil Lyutscanov, BuN, First Deputy Chief of Bulgarian General Staff; Lt. Gen. Simeon Simeonov, Bu AF, Commander of the Bulgarian Air Force; Lt. Gen. Laurentiu Maftai (ret), Air Defence Counselor to the Chief of the Romanian Air Force.

The conference will feature an exhibition of Air Force equipment and technologies.

### **First International Conference UMSSOFT 2007 – Using Models and Simulations in Support Of Force Transformation**

[www.procon.bg/umssoft/](http://www.procon.bg/umssoft/)

UMSSOFT 2007 was hosted by Bulgaria's Ministry of Defense at the "G.S. Rakovski" Defense and Staff College. It provided opportunities for:

- Sharing experience from the implementation of methods, tools and latest research results in support of force planning and management, operations planning, and training in the new security environment
- Facilitation of the development of a common "knowledge infrastructure" of related concepts, methodologies, methods, and tools
- Promotion of the implementation of objective, rational decision-making frameworks
- Identification of key implementation challenges and priority research areas.

A selection of the papers presented at the conference will appear in the next issues of *Information & Security: An International Journal*.

## CLOSING CAPABILITY GAPS

### Strategic Airlift Capability

Strategic airlift is among the top capability requirements, as decided at the NATO Summit in Prague, and reiterated at the two follow-up summits in Istanbul and Riga.

In order to close this gap, 15 NATO member countries—Bulgaria, the Czech Republic, Denmark, Estonia, Hungary, Italy, Latvia, Lithuania, the Netherlands, Norway, Poland, Romania, the Slovak Republic, Slovenia and the United States—and Partner country Sweden initiated the purchase of *C-17 Globemaster* transport aircraft.

The capability will initially comprise three C-17s, flown and maintained in a multinational arrangement.<sup>1</sup>

The initial operating capability is planned for the latter half of 2007, with the full complement of aircraft and full operating capability in 2009. This is one of two complementary initiatives aimed at providing NATO with strategic airlift capabilities. The other is the Strategic Airlift Interim Solution (SALIS), under which a multinational consortium of 16 countries, led by Germany, is chartering Antonov An-124-100 transport aircraft.<sup>2</sup> Possibly, this pool will expand through future acquisition of Airbus A-400M (when available).

### Protecting Helicopters against Rocket Attacks

One of the ten priority areas of NATO's Conference of National Armaments Directors (CNAD) program on *Defense Against Terrorism* addresses the vulnerability of helicopters to rocket-propelled grenades (RPG). Within the CNAD program, Bulgaria is the lead country in the development of helicopter protection technology, with Greece and Poland also involved.

---

<sup>1</sup> See "C17 airlift capability for NATO displayed," 27 November 2006, <[www.nato.int/docu/update/2006/11-november/e1127a.htm](http://www.nato.int/docu/update/2006/11-november/e1127a.htm)>; and "SALIS' Sibling: NATO's C-17 Pool Inaugurates In-House Heavy Lift," 18 December 2006, <[www.defenseindustrydaily.com/salis-sibling-natos-c17-pool-inaugurates-inhouse-heavy-lift-02630](http://www.defenseindustrydaily.com/salis-sibling-natos-c17-pool-inaugurates-inhouse-heavy-lift-02630)>.

<sup>2</sup> "C17 airlift capability for NATO displayed."

---

In a collaborative effort, the Bulgarian Ministry of Defense and the Bulgarian Academy of Sciences test a technology, described as “passive.” It is designed to be strapped onto helicopters and to prevent rocket-propelled grenades from exploding. Tests, conducted in 2006, are considered “promising.” More testing is scheduled to assess whether the technology is viable for use by NATO forces.<sup>3</sup> Poland is currently conducting a parallel program of testing.

For other examples of ballistic protection technologies the reader may refer to <[www.airforce-technology.com/contractors/modifications/roshield](http://www.airforce-technology.com/contractors/modifications/roshield)>. For comprehensive treatment of other helicopter protection issues see Jordan D. Yankov, “Helicopter Survival: Fly or Die?” <[www.globalsecurity.org/military/library/report/1991/YJD.htm](http://www.globalsecurity.org/military/library/report/1991/YJD.htm)>.

---

<sup>3</sup> See “New technology to protect helicopters,” <[www.nato.int/docu/update/2006/10-october/e1010a.htm](http://www.nato.int/docu/update/2006/10-october/e1010a.htm)>; and “NATO: Bulgaria May Have RPG Protection Solution for Helicopters,” <[www.defenseindustrydaily.com/nato-bulgaria-may-have-rpg-protection-solution-for-helicopters-02732](http://www.defenseindustrydaily.com/nato-bulgaria-may-have-rpg-protection-solution-for-helicopters-02732)>.

## **AFCEA BULGARIAN CHAPTER VARNA**

**O**n May 12<sup>th</sup>, 2000, in Varna on the Bulgarian Black Sea coast a new Chapter of the Armed Forces Communications and Electronics Association (AFCEA) was founded. The Chapter was granted Charter of Incorporation by AFCEA International on July 24<sup>th</sup>, 2000. This second Bulgarian Chapter of AFCEA pursues the objectives and abides to the principles of AFCEA International. It thus, contributes to the success of the Bulgarian military reform, as well as to the strengthening of the country's national security.

Chapter Varna has been spreading its activities throughout the Bulgarian Black Sea coastal areas. In so doing, it is mutually supporting and complementing the Bulgarian Chapter Sofia, in contributing to a wider dissemination of the ideas and activities of AFCEA throughout Bulgaria, South-East Europe and the whole of the Black Sea region. This is very much seen as a positive contribution towards peace and stability in the region.

The Chapter's Board consists of active and retired naval officers from the Bulgarian Navy HQ, from the Naval Academy, as well as representatives of the business community in Bulgaria.

Since its inception more than four years ago, AFCEA Varna Chapter has proven its value as a centre for defence and security matters, for business contacts and for personal development. It regularly holds meetings, lectures and conferences on these and other related issues, attended by many government, military, NGO and industry leaders.

Chapter Varna now has more than 45 individual members, including the Bulgarian Military Representative to NATO, the Bulgarian President's Secretary on National Defence Affairs, military diplomats from the US, UK and the Netherlands, senior military officers, as well as former senior Ministry of Defence officials. Additionally there are four corporate sponsors, namely Thales Nederland B.V., Unimasters Logistics Group Ltd, Varna, the Institute of Air Transport, Sofia, and WESTEL Ltd., Sofia.

In 2003 and 2004, the Chapter received important recognition for its consistent efforts for promoting the ideas and principles of AFCEA in Bulgaria by receiving Albert J. Myer "Special Recognition" and "Special Achievement" Awards of AFCEA



International. One individual Chapter member was elected to serve on the Board of Directors of AFCEA International and became a member of the European Advisory Council of the Association, while another Chapter member was nominated as 2003 Distinguished Young AFCEAN (DYA) and the Regional DYA for the Mediterranean & Black Sea region.

The major event organised by AFCEA Varna is its International Conference. The Chapter has so far organised conferences on the following topics:

- The Bulgarian Navy Transformation – New Missions and New Technologies
- TECHNET EUROPE 2006
- Challenges and Developments in Black Sea Security – the Naval Dimension
- The Bulgarian Air Force – Challenges and Prospects
- The Bulgarian Navy – Transformation and Modernisation in the Context of Black Sea Security
- The Bulgarian Land Forces – New Missions, Tasks and Required Operational Capabilities
- The Bulgarian Air Force – Missions and Roles in the Context of National and Collective Security
- Challenges for Bulgaria’s Navy and Maritime Sovereignty
- The Bulgarian Navy – New Missions, Roles and Capabilities
- The Bulgarian Navy – Global Trends and Local Aspects.

Two future conferences organized by the Chapter are:

- Transformation, Modernisation and Building Expeditionary Capabilities of the Bulgarian Air Force
- The Bulgarian Land Forces Transformation – Building Required Operational Capabilities.

**Contact information:**

40 Graf Ignatiev Street  
P.O. Box 229  
BG-9000, Varna  
Bulgaria

*Phone:* +359 52 6655 777

*Fax:* +359 52 6655 755

*Web site:* [www.afcea.bg](http://www.afcea.bg)

*E-mail:* [secretary@afcea.bg](mailto:secretary@afcea.bg)