

Conference Fees 12 - 14 Sept. 2007

Registrations

| | |
|---|----------|
| AFCEA Rome Chapter | € 300,00 |
| AFCEA & IEEE-AESS Members | € 350,00 |
| Other | € 400,00 |
| SURPRISE VISIT & GALA DINNER 13/09/2007 | € 100,00 |

Travel & Hotel Accomodation

SISTINA TRAVEL
Largo Ildebrando
Pizzetti, 1
00197 Roma
Tel +39 06 62294233
www.sistinatravel.it

Symposium & Exhibition Information

Tel +39 06.49863579
Fax +39 06.49863660
aerospace@afcearoma.it
www.afcearoma.it

Sponsor Gold



Sponsor Silver



Organising Committee

| | |
|----------------------------|-----------------------------|
| Giuseppe Angino | Thales Alenia Space |
| Mirko Antonini | University Rome Tor Vergata |
| Umberto Berritto | Nexint |
| Angelo Cappellanti | Senior Advisor / AFCEA |
| Goffredo Forcinella | CISCO/AFCEA |
| Aldo Giannatiempo | Teledife |
| Viviana Panaccia | Telespazio |
| Mario Prignano | Teledife |
| Eugenio Serrecchia | Teledife |
| Marcello Spagnolo | Finmeccanica |



The ARMED FORCES
COMMUNICATIONS
& ELECTRONICS ASSOCIATION
ROME CHAPTER



An AFCEA International Symposium
on

AEROSPACE TECHNOLOGIES and APPLICATIONS for DUAL USE



ROME, Italy

Hotel Parco dei Principi
September 12 - 14, 2007



ROME, ITALY
HOTEL PARCO DEI PRINCIPI
VIA G. FRESCOBALDI, 5

Aerospace Technologies and Applications for Dual Use

The events occurred in the last years have shown how the threat related to both intentional and natural disasters could bring the civil and the military worlds closer in the conceivment and deployment of countermeasures as well as in the identification of effective strategies for enhancing the Planet safety and security.

Aim of the Event

In this frame, the concept of *dual use*, which refers to the set of technologies and applications that can be exploited for both civil and military purposes, becomes a key-topic to be addressed in an international forum. In addition, the *aerospace* is a strategic building block for the deployment of a network centric environment for the global protection of the Planet and its population. Aerospace is also a natural environment for dual use: many of the related enabling technologies have been developed first for the military world and then applied to civil and even commercial purposes.

This International Symposium has been therefore conceived from the combination of *dual use* and *aerospace* to gather the international community around a key-topic for the future of mankind: *aerospace technologies and applications for dual use*.

General Chairs

Pietro Finocchio - Teledife/AFCEA

Marina Ruggieri - University Rome Tor Vergata/CTIF_Italy/IEEE AESS/AFCEA

Technical Program Committee Chairs

Adm. Lucio Accardo - SEGREDIFESA / AFCEA

Enrico Del Re - CNIT / University of Florence

Technical Program Committee

| | |
|------------------------------------|---|
| Vittorio Biscarini | Selex Communications |
| Herbert A. Browne | AFCEA International |
| Mesut Ciceker | Lockheed Martin Europe |
| Mario L. Cosmo | ASI |
| Serafino D'Angelantonio | EADS Italia |
| Carlo Des Dorides | Galileo Joint Undertaking |
| Massimo Di Lazzaro | Thales Alenia Space |
| François Fayard | DGA France |
| Paolo Gaudenzi | University Rome La Sapienza, Italy |
| Giordano Giannantoni | Oerlikon Contraves Italia |
| Sergio Greco | Thales Alenia Space |
| Hugh Griffiths | Defence Academy of UK/AESS |
| Robert Howell | AFCEA Europe |
| Blaise Jaeger | Thales Alenia Space |
| John Junkins | Texas A&M University, USA |
| Cosimo La Rocca | European Satellite Navigation Industries (ESNI) |
| Ole Mørk Lauridsen | Terma, Denmark |
| Andrea Lazzaresci Sergiunti | Galileo Avionica |
| Eric Lutz | DLR, Germany |
| Robert P. Lyons Jr. | Xcelsi Group LLC, USA/AESS |
| Marcello Maranesi | Telespazio |

Lorenzo Mariani
Paolo Massafra
Daniele Mortari
Franco Ongaro
Luigi Pasquali
Ramjee Prasad
Guy Pujolle
Robert C. Rassa
Gennaro Russo
Enrico Saggese
Michele Sasso
Pierluigi Soddu

Selex Sistemi Integrati
CISCO
Texas A&M University, USA
ESA
Telespazio
AAU/CTIF, Denmark
University Paris 6, France/IFIP
Raytheon, USA / IEEE AESS
CIRA
Finmeccanica
Telespazio
Presidenza Consiglio dei Ministri
Dpt. Protezione Civile, Italy
RWTH - Aachen, Germany/IFIP
Boeing
Space Engineering
ESA
DTA - Filas

Otto Spaniol
Roberto Valla
Antonio Vernucchi
Giuseppe Viriglio
Gerardo Lancia

Preliminary Program

September 12, 2007

18:30 Registration & Welcome Cocktail

September 13, 2007

8:30 - 10:30 hrs Opening

Welcome Speeches

Key Note Speech: Paul Gartz, IEEE AESS/System Council

Coffee break & Exhibition

11:00 - 13:00 hrs

Session 1 Trends and Challenges in Aerospace Dual Use - Part 1

Dual Use: a European Perspective and Ongoing Activities

Jorge Pereira, *European Commission*

Dual Use Perspective from European Space Agency

Giuseppe Morsillo, *European Space Agency*

Technology Application for Evolving Security Needs

Giancarlo Grasso, *CTO Finmeccanica*

System of System and Processor Key to Dual Use

Paul Gartz, *IEEE AESS/System Council*

The Role of Civil Protection in the Dual Use Scenario

Guido Bertolaso, *Protezione Civile*

Filas Strategy to Enhance DTA Impact in the Global Dual Scenario

Gerardo Lancia, *Filas*

Lunch

14:00 - 15:20 hrs

Session 2 Trends and Challenges in Aerospace Dual Use - Part 2

Dual Use in Aerospace: Analysis of Strategy and Developments

Enrico Saggese, *Finmeccanica*

Italy-France Cooperation in the Frame of Aerospace Dual Use Activities

François Fayard, *DGA France*

Complex Systems for Dual-Use Applications at the Italian

Space Agency

Mario Cosmo, *Agenzia Spaziale Italiana*

Extending the Internet into Space

Stefano Venturi, *CISCO*

Coffee break & Exhibition

15:50 - 17:50 hrs

Session 3 Dual Use Technology and Applications - Part 1

Remote Sensing for Civil Application

Volker Liebig, *European Space Agency*

Asset and Technologies for Dual Use Space-Based Missions

Carlo Alberto Penazzi, *Thales Alenia Space*

Innovative Satellite Applications for Navigation and Earth Observation

Giuseppe Veredice, *Telespazio*

Electro optic sensor for dual use space & airborne application

Renzo Meschini, *Galileo Avionica*

TETRA in Heterogeneous Networks

Maurizio Tucci, *Selex Communications*

Trends on Enabling Technologies for Sensors, System and

System of Systems

Marina Grossi, *Selex Sistemi Integrati*

September 14, 2007

Key Note Speech: Giuseppe Viriglio, ESA

9:00 - 10:30 hrs

Session 4 Dual Use Technology and Applications - Part 2

Technology and Application Dual Use

Giovanni Rum, *GEO*

Innovative Satellite Applications for Homeland Security

Luigi Pasquali, *Telespazio*

Optimisation of Flower Constellations for Dual Use

John Junkins & Daniele Mortari, *Texas A&M University*

Galileo: a System with Dual-Use Dimension

Sergio Greco, *Thales Alenia Space*

The Space-Based Dual Use Technology as Fundamentals of

the new NCO Large System Architectures

Paolo Neri, *Selex-SI*

The Role of Telemedicine in the Dual Use Perspective

Michele Anaclerio, *MoD Italy*

Coffee break & Exhibition

11:00-12:40 hrs

Session 5 Dual Use Technology and Applications - Part 3

GNSS Supervisory Authority: the GALILEO Case Study

Carlo DesDorides, *GSA*

NavCom & Dual Use in Denmark

Ramjee Prasad, *AAU/CTIF & Ole Mørk Lauridsen, Terma*

Meteorology in the Dual Use Perspective

Massimo Capaldo, *MOD Italy*

Dual Use Applications of High Resolution Radar Imaging

Hugh Griffiths, *UK Defence Academy*

Italian Initiatives for Broadband Communications and Data

Relay Satellite Systems

Mario Ciampini, *Thales Alenia Space*

Dual Use Technologies and Applications

Andrea De Martino, *Elettronica*

Lunch & Surprise Event

14:00-16:00 hrs

Panel on "Industry Outlook"

Blaise Jaeger, *Thales Alenia Space*

Peter Doerpelkus, *CISCO*

Mesut Ciceker, *Lockheed Martin Europe*

Giordano Giannantoni, *Rheinmetall*

Cosimo La Rocca, *European Satellite Navigation Industries*

Robert P. Lyons, Jr., *Xcelsi Group LLC*

Sergio Vetrilla, *CIRA*

Fabrizio Petrosino, *Space Engineering*

Giuseppe Aridon, *Telespazio*

Armando Buccheri, *Galileo Avionica*

Claudio De Bellis, *Elsag/Datamat*

Roberto Valla, *The Boeing Company*

Michele Fuega, *EADS Italia*

Gianfranco Previtera, *IBM*

Attilio Jesi, *Elettronica*

Closing Remarks - Pietro Finocchio & Marina Ruggieri