

- As a preview to the PARIS - LE BOURGET AIR SHOW'2003
- On the occasion of Aviation's Centenary



STIC-AERO'2003

Information & Communication Science & Technology - ITs -
At the heart of AEROnautical Systems

International Conference

Organised by *The Association Aéronautique et Astronautique de France*

12-13 June 2003
& 14 June 2003 morning
PARIS-NORD Villepinte
France

14 June 2003 afternoon
Musée de l'Air et de l'Espace
Aéroports de Paris
LE BOURGET
France

First announcement



STIC-AERO'2003

General Background

Fifty years ago, on the occasion of the 50th anniversary of the Wright Brothers' first flight, a Conference was organised by the Association Française des Ingénieurs et Techniciens de l'Aéronautique (AFITAE), during the Le Bourget Air Show, 1953. This Conference was entitled:

AERO-ELECTRONIQUE

Applications of Electronics to Technical Developments in Aircraft

Its objective was to provide an up-to-date report on the already considerable contribution of electronics to aeronautics and to imagine the role this discipline would come to play in aviation over future decades. In addition to this, the Conference also managed to establish for the first time close links between the aeronautics and electronics professions. This event was a great success. This is the reason why the personalities organising the Conference expressed the wish that 50 years later, on the occasion of the 100th anniversary of the Wright Brothers' first flight, their successors should, in turn, draw up an inventory of the advances achieved since 1953 and at the same time imagine the technological revolutions to come. So, the opportunity to take up this challenge has fallen to the AAAF (Association Aéronautique et Astronautique de France). The decision was taken to hold on 12-14 June 2003, as a preview to the Le Bourget Air Show'2003 (Salon International de l'Aéronautique et de l'Espace), a major international Conference entitled:

STIC-AERO

Information and Communication Science and Technology at the Heart of Aeronautical Systems

The intention is to give this event a European perspective, whilst also opening it up to the whole world. Led by Session Chairmen and Speakers from different nationalities, it will make possible extended exchanges of view, thanks to many panel discussions.

Conference Overview

Few sciences have shown such considerable advances over the past 50 years as electronics. In 1953, we were situated halfway between the invention of the transistor (1948 – J. Bardeen, W. Brattain, W. Shockley) and the realisation of the first solid-state integrated circuit (1958, J. Kilby). At that time, electronics was considered a field of activity distinct from that of aeronautics. In fact, aeronautics was focused on the product itself when electronics was then only a means to implement certain functions and assist in the solution of certain problems.

With the subsequent arrival of solid-state generalisation and miniaturisation; dramatic improvements in reliability; cost reduction; the emergence of digital technologies; developments in computers, etc.; electronics and computerised equipment gradually came to constitute the core of the aircraft. Simultaneously, aircraft could be seen gradually evolving from individual (or quasi-individual) object to aeronautical system. And today, in civil aviation as well as in the military aviation sector, the individual aircraft is just a component among others within a complex system governed by information and communication science and technology.

The main objectives:

- To assess the ground covered since 1953 and thereby identify the revolution created in aviation by electronics and computer developments, and more generally, by information and communication technologies.
- Through prospective thought about the probable coming scientific and technological advances and also on future

operational needs, to identify the most promising leads in the aviation world for the use of information and communication technologies.

- Through a summary, to highlight the Research and Technology Development programmes having the highest level of priority with a view to preparing for the future on a 2020-2030 time horizon.

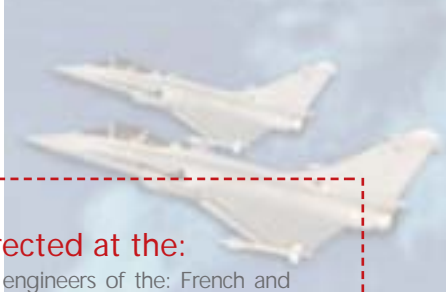
The dual civil/military aspect will determine the spirit of the STIC-AERO Conference, which will be essentially technological and future-oriented.

Four phases:

Phase 1 – An introductory session aiming at providing an overall description of the successive advances achieved from 1953 to 2003, in terms of technological developments in electronics as well as a general description of the operational concepts evolution in civil and military aeronautics.

Phase 2 – A group of five “analysis modules”, each dealing with a specific topic - the role of information and communication technologies in: Flight control; Air Traffic Management; Armed forces systems architecture; Airlines operations; Industrial processes, methods and tools.

Phase 3 – R & TD cross-session. This will make it possible to express the aeronautical sector's needs, in terms of ITs related R & TD; to highlight the main scientific and technological



challenges to be taken up in order to conduct the future evolutions in the best possible manner and to control the coming revolutions in the aeronautical and IT worlds; to establish the recommendations concerning the research efforts to be given priority and the cooperation models to be set up between the players involved.

Phase 4 – Final session: global synthesis and recommendations. The objective will be to express the most fundamental recommendations intended for the decision-makers, concerning the necessary R&TD programmes to be pushed.

STIC-AERO' 2003 is directed at the:

- decision-makers, managers and engineers of the: French and foreign governmental authorities concerned (Defence, Transport, Research); European institutions; national and foreign administrations concerned (Defence, Transport, Research); industrial firms working in aeronautics, defence, information and communication technologies;
- officers and engineers of the military organisations;
- engineers and scientists of the Research Centres concerned.

Honorary Committee

Currently being constituted:
14 V.I.P.s French and other nationalities

Steering Committee

- Coordinator:
Jean-Pierre Sanfourche, AAAF
- Flight Control:
Jean Grossin, Teuchos
- Air Traffic Management (ATM):
Jean-Marc Garot, Eurocontrol
- Armed Forces Systems:
ICA Roland Codde, DGA
- Industrial Processes, Methods & Tools:
Jean-Paul Lagrange, Snecma Moteurs
- Airlines Operations:
Pierre Caussade, Air France
- R & TD:
Dominique Vernay, THALES

Programme Committee

- President:
Daniel Deviller, EADS
- Vice-President:
Jean-Claude Hironde, Dassault Aviation
- Defence:
Ingénieur Général Patrick Auroy, DGA
Général Jean-Paul Palomeros, Etat-Major des Armées
- Civil Aviation:
Christian Cleret, ADP
Arnaud Dedryvère, DGAC/DNA
Pierre-Henri Gourgeon, Air France
Jean-Paul Troadec, DGAC
Guy Tardieu, Air France
- Industry:
Alain Bories, THALES
Jean-Paul Herteman, Snecma Moteurs
Patrick Pinganaud, Dassault Aviation
Bernard Rontani, Eurocopter
- Research:
Michel Bon, SEE
Jean-Jacques Gagnepain, DGA
Michel de Gliniasty, ONERA

Conference Timetable

TIME	9:00 - 10:30	BREAK	10:45 - 12:45	12:45 - 14:00	14:00 - 16:00	BREAK	16:15 - 18:00	19:30 - 23:45
Thursday 12 June	PLENARY SESSION • Evolution of the role of electronics in aeronautics from 1953 to 2003 Venue: PARIS-NORD Villepinte		LUNCH at VILLEPINTE		Specialised Sessions • Flight Control (1/2) • Air Traffic Management (1/2) • Armed Forces Systems Architecture (1/2) Venue: PARIS-NORD Villepinte	Musée de l'Air et de l'Espace • Technical visit • Gala Dinner Venue: LE BOURGET		
Friday 13 June	Three specialised sessions in parallel • Flight Control (2/2) • Air Traffic Management (2/2) • Armed forces systems (2/2) Venue: PARIS-NORD Villepinte		LUNCH at VILLEPINTE		Two specialised sessions in parallel • Industrial processes, methods and tools • Airline operations Venue: PARIS-NORD Villepinte	Free		
Saturday 14 June	PLENARY SESSION • R & TD in civil aviation • R & TD in military aviation • Common R & TD Venue: PARIS-NORD Villepinte		LUNCH at VILLEPINTE		PLENARY SESSION • Conclusions and recommendations concerning the top priority R&TD programmes Venue: Musée de l'Air et de l'Espace - LE BOURGET	Free		

Friday 13 June, evening and Saturday 14 June, evening:

A coach shuttle service will be available to provide transport for delegates between and the conference site and Paris.





Registration form

STIC-AERO'2003 International Conference

12-13 June 2003
& 14 June 2003 morning
PARIS-NORD Villepinte, France

14 June 2003 afternoon
Musée de l'Air et de l'Espace
Aéroports de Paris - LE BOURGET, France

Please complete this form in BLOCK CAPITALS and return to:
SEE/AAAF Congress Dept. - 17, rue Hamelin - 75783 Paris Cedex 16 - France
tel.: +33 (0)1 56 90 37 05 - fax: +33 (0)1 56 90 37 08 - e-mail: congres@see.asso.fr
web : www.stic-aero.org

PARTICIPANT:

Surname (Family Name) First Name(s)

Prof Dr Mr Mrs Miss Position

Company/Organisation

Address

.....

Zipcode/Town Country

Business Telephone Fax

E-mail

The following services are offered to all delegates:

- Access to the STIC-AERO International Conference site and its facilities.
- Access to all Conference Sessions.
- Technical Programme, Book of abstracts, Conference hand-out, CD Rom (Full Proceedings).
- Lunches (Thursday 12, Friday 13, Saturday 14 June).
- Admittance to the social event : Thursday 12 June, 19:30-23:45.
Musée de l'Air et de l'Espace - LE BOURGET: visit with commentaries, followed by the STIC-AERO'2003 gala dinner.
- Access to the coach shuttle service made available to get to Paris on 13 of June and 14 June evening.

REGISTRATION FEES (in Euros, including VAT 19,6%):

Registration fees	Before 25 April 2003	After 25 April 2003
Conference participant (Gala Evening incl.)	980 €	1 150 €
Gala Evening, accompanying persons	100 € (per person)	100 € (per person)

Payment:

Please complete the Registration form and send it with payment or proof of payment to: STIC-AERO International Conference c/o SEE/AAAF Congress Depart. - 17, rue Hamelin - 75783 - Paris Cedex 16 - France - Fax : +33 1 56 90 37 08.

Method of payment:

Payment for registration is required in Euros in advance of the Congress and can be made:

- by cheque or money order made payable to STIC-AERO International Conference and sent to: STIC-AERO International Conference - c/o SEE-AAAF Congress Department 17, rue Hamelin - 75783 - Paris Cedex 16 - France - Fax : +33 1 56 90 37 08
- by bank transfer to: BNP PARIBAS / Paris Maine Montparnasse, 20 Bld de Vaugirard - 75015 Paris - France - Account N° 30004 0010336242 58 - swift code: BNPA FRPPPPXV
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Cancellation:

All cancellations must be made in writing to STIC-AERO International Conference c/o SEE/AAAF- Congress Depart. Cancellations received before 10 May 2003 will receive a full refund less 250 Euros. All those received after 10 May 2003 will not be entitled to any refund.