

Call for papers

Authors should submit before December 15, 2007

- An abstract describing the topic and interest of the presentation (300-500 words), saved as a Word document (.doc)
- Title of the conference, Prime author, Co-authors and companies, coordinates (complete mailing address, phone and fax numbers, E-mail address) of the prime author.

These documents should be sent to

3AF - 6, rue Galilée - 75016 Paris - France
Tél. : 33 (0) 1 56 64 12 30 - Fax : 33 (0) 1 56 64 12 31
E-mail : secr.exec@aaaf.asso.fr

Notification of acceptance or refusal

The Programme Committee will notify all authors of its decision in January 2008. This notification will be accompanied by detailed instructions allowing selected authors to prepare and send to the secretariat their full presentation for May 12, 2006.

Language Papers will be presented in English

Secretariat 3AF - 6, rue Galilée - 75016 Paris - France
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Centre International de Congrès

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Tél. : 33 (0)4 90 27 50 00 - Fax : 33(0)4 90 27 50 58

THE FUTURE and STAKES of ON-BOARD ENERGY in SPACE SYSTEMS

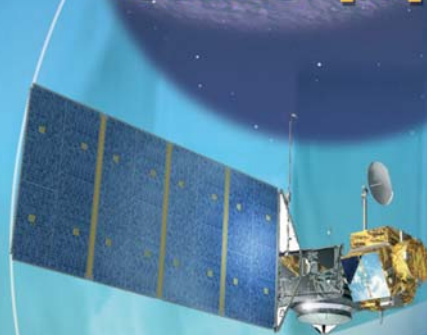
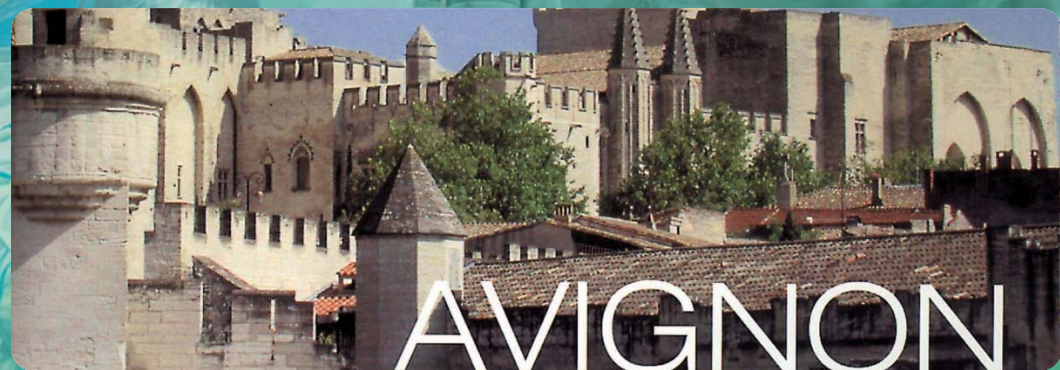
Preparing the Next Fifty Years

2057

Call for papers

1957

June 9-11
2008
Avignon-France



THE FUTURE and STAKES of ON-BOARD ENERGY in SPACE SYSTEMS

Preparing the Next Fifty Years

Background

The 3AF Energetic Technical Committee is pleased to announce its fourth Congress to be held in the « Popes' Palace » (« Palais des Papes ») in Avignon, France, June 9, 10, 11, 2008.

After the third Congress dedicated to the « Challenges for On-Board Energy » in June 2006, this new event will focus on

« THE FUTURE and STAKES of ON-BOARD ENERGY in SPACE SYSTEMS »

This congress is managed to be a milestone in terms of technical exchanges in field of space exploration; since 2007 is the 50th anniversary of the Sputnik launch, we will take advantage of this opportunity to have an overview of the preparation of the next 50 years as regards On-Board Energy.

During these last fifty years new technologies have been developed and now have a very promising future; for example new projects are now designed with Li-Ion batteries, fuel-cells, advanced pyrotechnic gas generators, electric actuators, safer and more reliable devices, hybridization, etc.

The new challenges for these next fifty years ask actors to cope with several problems as the development of new kinds of energies, the improvement of the compactness of on-board devices, the design of new sources of energy to get a high availability for space exploration (e.g. Earth return missions), the storage of energy and, of course, the management of different sources of energy at the platform level.

More generally speaking, all these changes are required for all kinds of future space platforms; so we will have to take advantages from exchanges between actors from different horizons.

Scope and framework of the Congress

Among all the subjects which could raise from these problems the selected presentations will preferably treat the following topics:

- New kinds of energy which are considered today in order to get higher performances such as very long mission duration, very long shelf life, ... and other

THE FUTURE and STAKES of ON-BOARD ENERGY in SPACE SYSTEMS

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Objective

The purpose of this meeting is to make the objectives and stakes shared and to promote the new technologies associated with energy required by space platforms (spacecraft, launch vehicles...) for the future, but also to be a place of very rich exchanges between participants. The Agencies and prime contractors will explain their top-down point of view for these new challenges; the bottom-up point of view will come from introducing future technologies and R&D projects by industrials and universities. Civilian and military applications will be considered.

performances required for new types of missions

- Energy Management and Hybridization
- Improved Safety and Reliability
- Improved Compactness of Sources of Energy
- Space exploration projects which might make energy-related technologies questionable
- « Green » gas generators and other energetic devices for space exploration
- Generally speaking, Space Vehicles and Programs (civilian and military)

but also all kinds of presentations which will give a focus on On-Board energy in the future will be considered since the aim is to outline the on-coming On-Board technologies

How to reach Avignon ?

• 3 airports

- Avignon : 10 min
- flights from : Paris - Cherbourg - St Étienne - Bordeaux - Toulouse - Strasbourg - Nantes - Rennes
- Nîmes (30 min drive to Avignon)
- Marseille-Provence (45 min drive to Avignon)
- 67 direct flights from Amsterdam - Athènes - Barcelone - Lisbonne - Londres - Munich - Zurich...

• TGV (High speed railway)

Paris	2h40
Roissy Charles de Gaulle	2h44
Lille Europe	3h50
Nantes	5h27
Rouen	4h52
Bruxelles	5h00

• 2 highways

- A9 «languedocienne» and A7 «autoroute du soleil»