

SPACE PROPULSION 2010



3-6 MAY
2010

SAN SEBASTIAN
SPAIN

ESA-3AF SPACE PROPULSION 2010

CALL FOR PAPERS

Abstracts are required
by 30th september 2009
and should be submitted
on www.propulsion2010.com

Organised by



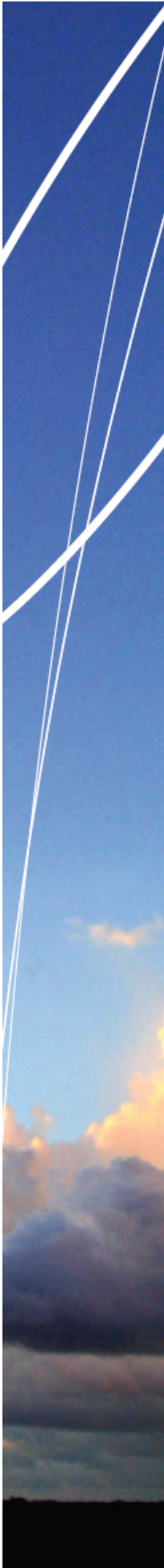
with the support of



Sponsored by



www.propulsion2010.com



Following the success of its first edition in Crete in May 2008, 3AF and ESA are pleased to announce:

ESA-3AF SPACE PROPULSION 2010

The second of a new series of international conferences on technical and programmatic aspects related to the development and application of Space Propulsion technologies.

**Kursaal Conference Centre,
San Sebastian (Spain)
3rd to 6th May 2010**

CONFERENCE BACKGROUND AND OBJECTIVES

The success of the Space Propulsion 2008 conference in Crete, underlined by the delegates' unanimous appreciation for the organization of such an event in Europe has resulted in the introduction of a Space Propulsion international forum in Europe. The aim of the forum is to open the way for the communities of both spacecraft and space transportation propulsion to work together to support ongoing and future work in the field.

For this reason ESA and 3AF, in collaboration with the major National European Agencies and with the organizational support of 3AF will therefore introduce this conference on a regular two yearly basis.

The next edition is planned for May 2010 in San Sebastian (Spain) and the programme of the event will be structured in such a way as to:

- Address a global and a pragmatic approach for propulsion issues in the short, medium and long term, following the recent ESA ministerial conference (The Hague 2008) and other decisional events in the international scenario, and in support of the preparation for future major decisional milestones in the international space arena
- Highlight European and international ambition towards challenging space exploration programmes
- Expose consequences of propulsion techniques following the application of systems of systems approaches,
- Duality of utilisation of propulsion techniques in civilian and military applications,
- Promote information exchanges at international level in the two main areas of propulsion for spacecraft and for space transportation.

Presentations on Spacecraft Propulsion and Propulsion for Space Transportation will run in parallel while some plenary events will be shared among the two subjects.

Technical as well as programmatic issues will be debated to support the preparation of future activities and roadmaps in all fields of space propulsion.

In order to ensure the highest level of contributions and return for the space community, ESA, CNES, DLR, ASI and other major European Space Delegations together with a significant international industrial support, will participate in the constitution of the conference programme.

Conference Chairs

G. SACCOCCIA(ESA) & P.G. AMAND (SNPE Propulsion & 3AF)

THE CONFERENCE STEERING COMMITTEE

A Conference Steering Committee at Agency Directors and Company CEOs level is being organized with the intent of ensuring an appropriate guidance towards the top level objectives of the Conference. The Steering Committee will also provide recommendation to the Programme and Technical Committees for the organization of special events and debates during the conference.

SPACECRAFT PROPULSION

For the area of application to spacecraft, Space Propulsion 2010 is soliciting abstracts on the following subjects:

Chemical, electric and advanced spacecraft propulsion systems
Propulsion components
Modelling
Applications to new missions and spacecraft (including robotic exploration)
Cost-related aspects of spacecraft propulsion
AIV issues and tools
Flight testing and experience
Green Propulsion for spacecraft
Overview of current programmes

Spacecraft Propulsion Technical Committee

G. Saccoccia (ESA)
L. Boloh (CNES)
N. Puetmann (DLR)
K. Kajiwara (JAXA)
C. Russo (NASA Ames)
K. Anflo (ECAPS)
M. Andrenucci (ALTA)
I. Coxhill (AMPAC)
R. Spears (L-3)
J-P. Yribarren (SNECMA)
J. Gonzalez (ESA)
F. Caramelli (ESA)
D. Gibbon (SSTL)
L. Lecardonnell (TAS)
D. Gale (ASTRIUM)
W. Smith (Aerofjet)
A. Oren (Rafael)
M. Pessana (TAS)
D. Fehyl (ASTRIUM -EADS)
N. Wallace (QinetiQ)

PROPULSION FOR SPACE TRANSPORTATION

For the area of application to space transportation systems, Space Propulsion 2010 is soliciting abstracts on the following subjects:

Propulsion techniques versus systems of systems approach
Technologies building blocks for Future Space Transportation Propulsion Systems: Launchers & Exploration platforms
Liquid; Solid & Hybrid Propulsion Systems for Launcher and Upper Stages
Overview of current programmes
Propulsion Components
Modelling
Pressure-Thrust oscillations issues
Overview of civilian and military propulsion techniques dualities
Cost-related aspects of Space Transportation propulsion
AIV issues and tools
Flight testing and experience
Green Propulsion for Space Transportation

Space Transportation Propulsion Technical Committee:

F. Rossi (ESA)
M. Ford (ESA)
J. Breteau (ESA)
J. Gigou (ESA)
P. Fortunier (CNES)
O. Heidn (DLR)
A. de Lillis (ASI)
P. Claudel (Arianespace)
G. Langel (EADS ASTRIUM)
G. Vigier (EADS ASTRIUM ST)
P-G. Amand (SNPE Propulsion)
S. Henry (SNPE Propulsion)
P. Yvart (SNPE Propulsion)
A. Souchier (Snecma Moteurs)
D. Bourry (Snecma Propulsion Solide)
M. Biagioni (AVIO)
J. Little (P&W Rocketdyne)
M. Habiballah (ONERA)
E. Abriat (MOOG)



CALL FOR PAPERS

Advice to authors:

The main purpose of the abstract is to give the Program Committee information to assist them in selecting the papers to be presented at the conference.

The selected papers will be presented in a 15 minute speech at the conference (+ 5 mins for Q&A).

An abstract will be selected based on the importance and originality of the subject addressed, on its relevance to the conference theme, on the clarity of its expression.

The abstract should be a "stand alone" summary that can be used in the compilation of abstracts.

The abstract should be in English and no longer than 400 words.

The abstract should summarize the main objectives of the paper to be presented and outline its conclusions.

Work that has been presented elsewhere, and not updated, will be considered inappropriate.

All abstracts should be submitted on www.propulsion2010.com

Notification of Acceptance/Refusal

The Programme Committee will notify all authors of its decision in November 2009. This notification will be accompanied by detailed instructions allowing authors to prepare and send their paper to the AAAF Secretariat by 29th April 2010. **Please note that failure to comply with the deadline will entail not having the manuscript included in the conference proceedings.**

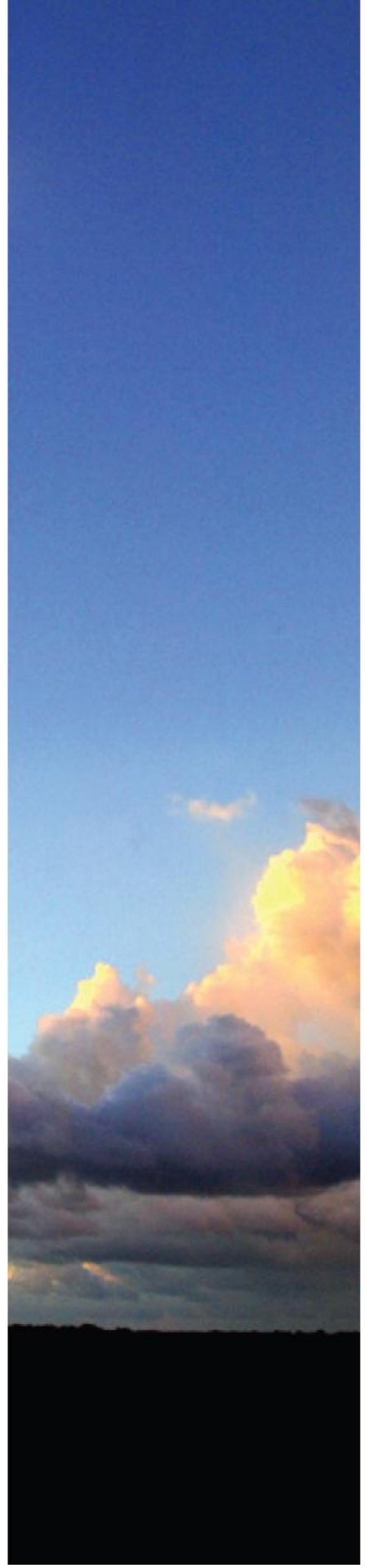
Language

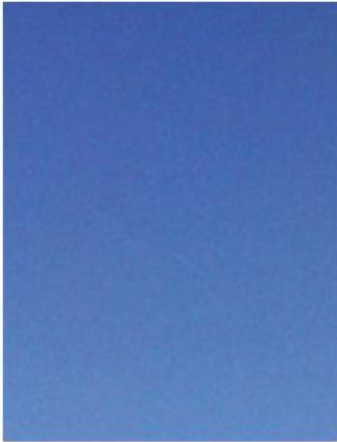
Please note that the official language for the symposium will be English. All presentations and documents must be in English.

Special Call for Student Participation

Space Propulsion 2010 in partnership with ESA Education actively promote student participation so as to encourage young professionals to a possible career in the field of Space Propulsion.

Students are therefore encouraged to attend the conference and, subject to application, are offered financial support to help cover transportation and registration fees. Please visit www.esa.int/education under Opportunities - Conferences for details on how to apply.





THE CONFERENCE VENUE

Space Propulsion 2010 will be held in the Kursaal Congress Centre, San Sebastian, Spain.

Designed by the renowned architect Rafael Moneo, the Kursaal Congress centre is located in the centre of San Sebastian facing the Bay of Biscay, the epicentre of the city's cultural and congress activity.

Kursaal Congress Centre
Avda. de Zurriola, 1 - 20002 Donostia/San Sebastián

Telephone: +34 943 00 30 00
Fax: +34 943 00 30 01



GENERAL INFORMATION

One of the highlights of Spain's Basque country, San Sebastian is also known as 'Donostia' and stands on the northern coastline, close to the French border. San Sebastian is the one place on earth that offers you literally everything your heart desires, all year round, non-stop and round-the-clock!

Ideally situated on an excellent spot on the Bay of Biscay, it's surrounded by verdant mountains. San Sebastian is a bustling city with a population of 185,000 inhabitants and is also the cultural capital of the Basque country. With its blend of cosmopolitan style and old-world ambience, San Sebastian is the perfect getaway. The area attracts tourists with its three lovely beaches: the laid-back Ondareta, the casual and friendly Playa de Gros, and the popular Playa de la Concha.

To complement the beaches, San Sebastian charming old quarter is bursting with cafés, bars, clubs, and restaurants where you can try their tasty tapas. Other attractions include the Baroque Church of Santa Maria, the Gothic Church of San Vicente, and the Museo de San Telmo, a former 16th century convent. For spectacular views of the bay and town, climb atop Mount Urgull and Mount Igeldo.

ACCOMMODATION

The organising committee has made arrangements for a block of rooms at several San Sebastian hotels where rates have been especially negotiated for Space Propulsion 2010 delegates with respect to standard hotel rates.

Hotels have been selected on the basis of category and distance from the conference centre (10 to 25 minutes walking distance).

We strongly recommend booking your hotel early in order to benefit from these advantageous rates.

For the list of pre-reserved hotels please refer to the conference website:

www.propulsion2010.com/accommodation



Access

San Sebastian airport is located 20 kilometers east of San Sebastian, Northern Spain. A bus service ensures transfers from the airport to the city centre. Taxi fares into San Sebastian are around 25 Euros.

Biarritz airport (France) is also very convenient, just 30 kilometers from San Sebastian.

Other airports in a 100 kilometers radius include: Bilbao and Pamplona (50 minutes by car), Vitoria (1 hour by car)

Transport

San Sebastian is a relatively small city to move around in and perhaps the best option is to walk. However, the city offers a selection of public transportation.

Taxis

There is a standard flag down rate and a corresponding rate will follow depending upon the place and the time covered. Taxi meters indicate rates of distance traveled and tariffs are available publicly for customer consultation.

Buses

Buses are clean and efficient - 1 euro for one way ticket.

Climate

Temperatures in San Sebastian are considered to be mild throughout the year.

Schedule of Events

First Announcement

October 2008

Second Announcement and Call for Papers

June 2009

Deadline for Abstracts

30th September 2009

Notification of Acceptance to Authors

November 2009

Preliminary Programme

January 2010

Online registration opening

1st February 2010

Deadline for Manuscripts

29th April 2010

Space Propulsion 2010

3rd- 6th May 2010

Organising Committee

Giorgio Saccoccia (ESA, The Netherlands)

Pierre-Guy Amand (SNPE – 3AF, France)

Lisa Gabaldi (3AF, France)

Conference Secretariat

AAAF : 6, rue de Galilée • 75016 Paris – France

Phone : +33 (0)1 56 64 12 35

Fax : +33 (0)1 56 64 12 31

E-mail : lisa.gabaldi@aaaf.asso.fr

www.propulsion2010.com