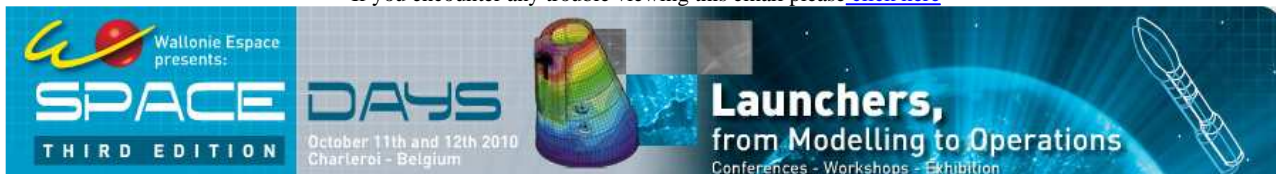


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## Block your diary and join us for the launchers event of the year!

Walonie Space presents: Space Days 2010

Launchers: from Modelling to Operations

Charleroi, Belgium - October 11th and 12th 2010  
Information and registration on [www.space-days.com](http://www.space-days.com)

**For the third edition "Space Days 2010", Wallonie Space will focus on launchers, the European growing market of this decade!**



**Jean-Marc Defise,**  
President of  
Walonie Space

During two days, Wallonie Space wants to highlight the significant Belgian know-how in the field of launchers Ariane, Soyuz and Vega, in many aspects of launcher and propulsion design, from numerical modelling to manufacturing and testing. During your visit of Space Days 2010, you will learn about tests and control benches, on-board electronic devices, metallic and composite structures, mechanisms, thermal control and verification, ablation, mechatronics, turbopumps rotor dynamics, cryogenic benches, servomechanisms, command and control software etc.

You will also meet professionals from many European countries as well as the main actors in the European launchers world (Arianespace, ESA, EADS ASTRIUM Space Transportation, ELV, SNECMA SAFRAN Group...).

Join us for this unique event!



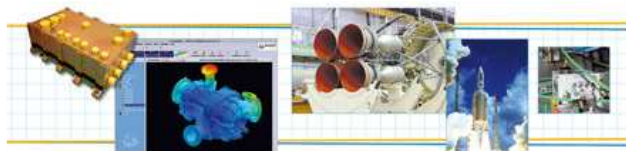
**Patrick Bury,**  
Thales Alenia  
Space ETCA

### Thales Alenia Space ETCA - Welcoming Word About Future Launchers Technologies

In May 2010, the 50th Ariane 5 has been launched by Arianespace. It's now time to prepare the future to keep Ariane as the market leader. The European launchers family is also composed with Soyuz and Vega.

The Space Days 2010 will be the opportunity to discover the vision of the major actors (ESA, ASTRIUM ST, ELV, SNECMA, Arianespace) about the evolutions of these launchers.

Thales Alenia Space ETCA like some other Belgian companies is deeply involved in these launchers on board and on ground. The preparation of the future is thus an important issue for us. During the Space Days 2010, you will also get a better knowledge of the involvement of these companies in the launchers activities.



**Didier Granville,**  
SAMTECH, host  
companies

### SAMTECH - Introduction About Launcher Modelling

The Finite Element method originated in Belgium during the sixties from the need for solving complex structural analysis problems. Numerical Modelling is now widely used in the field of space launchers. It helps nowadays a lot industrial manufacturers to reach high quality structural designs while minimising their costs, thanks to virtual prototypes that decrease significantly the need of expensive physical prototypes and tests.

During this Space Days 2010 event, senior engineering managers and their technical staff are invited to come and see how advanced Finite Element Analysis technologies developed since 40 years in Belgium can improve Space Launchers and Propulsion development processes. The event also represents the perfect environment in which attendees will have the opportunity to exchange best practices in a wide range of Computer Aided Engineering



domains applicable to Launchers and Propulsion, including metallic or composite structures analysis, stress analysis, fracture mechanics, post-buckling, rotor dynamics, rigid or flexible mechanisms analysis, thermal analysis, thermo-mechanical ablation, multi-disciplinary optimisation, multiphysics, CAD/CAE integration, Model Based Engineering ...

