

# Aero Space Days

PARIS

OCTOBER 12 & 13, 2011 - PARIS-ORLY AIRPORT, FRANCE

FLASH PRESENTATIONS - [www.aerospacedays.com](http://www.aerospacedays.com)

## 12 Oct.

09:00-9:20 Direct Manufacturing of technical parts for aerospace applications using selective laser melting technology

(12 Oct.)

### **POLY-SHAPE**

As a service provider we offer you beside different additive manufacturing technologies , several succeeding technics to produce small series of technical part or functional prototypes.

Selective Laser Melting (SLM) is a new layer-by-layer manufacturing technology for the production of functional metal parts directly from 3D-CAD data. Through the use of standard materials and with almost unlimited shape complexity this rapid manufacturing process opens new options for the aerospace and aeronautics industries.

Standard materials like different steel, Titanium and Aluminum alloys, Nickel and Cobalt alloys can be processed and the melting process during SLM yields parts with a density close to 100%. Mechanical properties of parts, like tensile strength and hardness, match the material specifications.

Examples of industrial parts made of Titanium and Aluminum alloys and manufactured by Poly-Shape company will be shown.

09:20-9:40 Aeroflex Introduces World's First Portable RF Radio Altimeter Test Set for Aircraft Flightline Test

(12 Oct.)

### **AEROFLEX**

Aeroflex introduce the ALT-8000, the world's first RF-based portable radio altimeter flightline test set. The ALT-8000 is a lightweight universal test set for FMCW (frequency modulated continuous carrier wave) radio altimeters and pulse radio altimeters with a large 12-inch color touch screen for ease of use.

09:40-10:00 EASA CODAMEIN - Composite Damage Metrics and Inspection

(12 Oct.)

### **BISHOP**

Composite fuselage shell impact research.

10:00-10:20 Efficient compensation of tolerances in assembly processes with shims

(12 Oct.)

### **GEORG MARTIN**

Knowing the advantages and the material developments.

Mechanical assemblies have certain fitting points. These joints do not need to be machined with high precision and effort. The solution to reduce time and effort is inserting simply shims for the tolerance compensation.

10:20-10:40 NexCap smart RFID cabinet: The answer to tools traceability, tools stock management and calibration follow-up issues for the aeronautics industry

(12 Oct.)

### **NEXESS**

Introduction of Nexess and its smart RFID cabinet for the secure storage of tools. How to simplify and optimize the management of specific tools thanks to the RFID technology?

10:40-11:00 RFID & Secured Asset Tracking - Mind the Gap

(12 Oct.)

### **ORIDAO**

Passive RFID is gaining acceptance within Airspace MRO applications as an efficient automated identification tool and a data storage support able to locally memorize birth and maintenance records off the tracked components. Before gaining further acceptance though, these new applications must prove their ability to be secured in a robust, scaleable and operational manner, therefore evolving from Network Centric architectures towards models where Intelligence is evenly distributed between Network & communicating Objects.

11:00-11:20 A new generation of Metal Matrix Composites for structural applications

(12 Oct.)

### **GAMMA TECHNOLOGY**

Description of the new perspectives offered by using Spherical Ceramic Particles Reinforced Aluminums in structural applications to define new cost/performance standards.

11:20-11:40 Reducing engineering cost and risk through a systematic integration of M&P managed information into Design process

(12 Oct.)

### **GRANTA DESIGN**

Find out why aerospace organizations such as Eurocopter, Boeing, Bombardier Aerospace, Rolls-Royce, GE—Aviation and MBDA are applying systems for materials data management and restricted substances risk management.

Granta Design supports leading aerospace enterprises to manage and use materials data.

Granta's solutions help to:

- Capture data from testing, QA, research, suppliers and other sources.
- Analyze that data and store it securely with all of its inter-relationships.
- Integrate this proprietary data with data from leading aerospace reference sources in a single source of corporate materials information.
- Reduce errors and re-work and increase accuracy in design by providing controlled access to this resource within the design environment - for example, directly within CAD or CAE systems.
- Find restricted substances in your products and restrict their use in future designs.

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11:40-12:00 How to increase productivity and persuasion for business proposals and response to invitation to tender ?

(12 Oct.)

## **JACK IN THE BOX**

There are methods and tools which allow facilitating teamwork and a better match of the arguments with the business strategy (winning topics and ways to face risks defined at kick off meetings and validation gates) and with the corporate rules. Everything in 20 to 30 % less time than before, with a graphic design above the competition. This workshop is for companies which bid on markets with intense competition, to the State or industry (final clients or on the account of the State), in France or abroad, with or without imposed formats: products, services, systems...

14:00-14:20 The Paris aeronautics and space industry: a policy to help small and medium size companies

(12 Oct.)

## **ASTECH PERFORM' AERO**

The Perform'aero policy is aimed at supporting Parisian small and medium size companies from aeronautics and space industries. Initiated in 2009 by the ASTech cluster and the Chamber of Commerce partners, the Perform'aero plan has supported for two years more than 400 small and medium size companies in their business development process. Come and identify the plan which will meet your requirements!

14:20-14:40 Scalable Solutions for Fabricated Aerospace Products

(12 Oct.)

## **PRYER**

PRYER's capabilities to scale its value added capabilities to solve OEM problems while still being a low cost addition to the overall program.

14:40-15:00 3D Braiding: A speedy and performing process for automatic placement of fibers for complex hollow composite structures

(12 Oct.)

## **DJP**

Manufacturing of hollow composite parts by 3D-Interlock braiding over specific mandrel in order to produce any rods, energy absorbers or any flaps.

15:00-15:20 RFID dedicated to the aerospace industry

(12 Oct.)

## **MAINtag**

RFID technology (Radio Frequency IDentification) has recently integrated the aerospace industry powered by Airbus' choice to load over 3,000 RFID tags (FLYtag) on each A350 XWB aircraft. A/C manufacturer, part suppliers, airlines and maintenance centers will improve their - manufacturing, -logistics, -maintenance processes using that revolutionary technology. MAINtag will detail the state of the art of RFID, a few aerospace applications that could welcome RFID, as well as Airbus' RFID program for A350 XWB.

15:20-15:40 The manufacturing processes simulation: an essential step in the current design phase of aeronautic structures

(12 Oct.)

## **CENAERO**

The current essential need to use numerical simulation in the design phase of aeronautic structures. Some industrial cases will be presented where simulation results have been a key decision factor.

15:40-16:00 Reducing the cost of verification to meet DO-178B requirements

(12 Oct.)

## **RAPITA SYSTEMS**

RVS (Rapita Verification Suite) is a software tool that enables customers to reduce the cost of performing on-target verification of real-time embedded software. RVS automates the process of performing timing analysis including Worst-case Execution Time (WCET) analysis, and on-target code coverage up to the level required by DO-178B standards. In this presentation, Rapita Systems will show how case studies in which the RVS tools have been used to reduce the cost of performing timing analysis and code coverage analysis on avionic platforms.

16:00-16:20 Aeronautic certification

(12 Oct.)

## **EADS APSYS**

For the whole process of the assembly and its planning, time and costs will be reduced. The presentation gives ideas of the M-Tech® - Shim Concept and the right choice of materials.

16:20-16:40 SURFACES ENGINEERING: Surface préparation for Aerospace parts

(12 Oct.)

## **STS**

Description and features of air blast technology,  
Media for blasting and cleaning,  
A few strong technology kick off,  
Return of experience,  
References in Aerospace market.

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16:40-17:00 Documentation matters : how important it is to have an up to date documentation in a regulatory environnement.

(12 Oct.)

## **INNOVIMAX**

Dealing with documentation is often a complex and underestimated problem. But, it is more and more the case that documentation is one of the piece of the delivery that creates delays. The aim of this presentation is to present some good practices and outreach that there exists efficient solutions.

17:00-17:20 SimulationX : Multidisciplinary modeling Modelica platform for mechatronic system simulation

(12 Oct.)

## **ITI SOUTHERN EUROPE**

Modern industrial products embed complex electronic functions and control.

The development and validation of both mechanical and electronic design require an early use of mixed models. Based on the Modelica language, SimulationX is an open multi-physics simulation platform including interfaces to CAD tools as well as easy handling via script and link to database.

With a generic and intuitive code export wizard, SimulationX allows design engineers to provide complete plant models for SiL or HiL tests.

17:20-17:40 Lean in the Aerospace sector

(12 Oct.)

## **SPITFIRE**

How to deploy efficiently Lean in SMEs : this presentation will introduce how Lean enables enterprises to effectively, efficiently, and reliably create value in complex and rapidly changing environments. It will explain the main benefits of Lean in Aerospace sector and will highlight the main steps and golden rules that need to be applied to ensure a successful change.

## 13 Oct.

09:20-9:40 Lambda-X, 15 years of optical instrumentation onboard of Spacecrafts

(13 Oct.)

## **LAMBDA-X SA**

Lambda-X S.A. designs, develops, manufactures and markets systems for vision and optical metrology for aerospace, industrial and ophthalmological applications. Since the start of its activities Lambda-X has invented, developed and assembled more than 25 high-tech optical instruments that have flown in satellites, sounding rockets and the International Space Station. Today, the European Space Agency and aerospace companies recognize Lambda-X as a competent and reliable partner.

This short talk will present, through specific example of realization, the technology and know-how acquired by collaborating in various challenging space and aerospace research programmes, that allow us to expand activities into various space sectors like scientific payloads for International Space Station, Satellites and sounding rockets, the sun sensor like the equipment developed for the CNES, the ultra-light optics for UAV as well as some break through technical development issued from space activities.

09:40-10:00 Reducing engineering cost and risk through a systematic approach of M&P information management

(13 Oct.)

## **GRANTA DESIGN**

Find out why aerospace organizations such as EADS Astrium, ESA, NASA, DLR, RUAG and Honeywell Aerospace are applying systems for materials data management and restricted substances risk management.

Granta Design supports leading space enterprises to manage and use materials data.

Granta's solutions help to:

- Capture data from testing, QA, research, suppliers, ESA data and other sources.
- Analyze that data and store it securely with all of its inter-relationships.
- Integrate this proprietary data with data from leading aerospace reference sources in a single source of corporate materials information.
- Reduce errors and re-work and increase accuracy in design by providing controlled access to this resource within the design environment - for example, directly within CAD or CAE systems.
- Save time in managing materials and process lists for the ESA tools or for any other reporting format.
- Find restricted substances in your products and restrict their use in future designs.

10:00-10:20 The LEAN reporting, or how THALES ALENIA SPACE or AIRBUS boost collective performance in complex or matrix organizations

(13 Oct.)

## **SYSTEM**

Learn how THALES ALENIA SPACE or AIRBUS boost collective performance in complex technical or business units, thanks to the BEAM-REPORT approach.

10:20-10:40 DIGIMAT Composite Material Modeling Technology for Aerospace Applications

(13 Oct.)

## **E-XSTREAM**

Presentation of DIGIMAT state-of-the-art technology for the nonlinear multi-scale modeling of composite materials and structures, focusing on aerospace applications.

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10:40-11:00 Protecting all that you value

(13 Oct.)

## **PELI PRODUCTS**

High-performance case solutions for the most demanding C20 i.e. aerospace.  
Getting gear from point A to point B in the condition A15 meant to be in: intact and functional.  
Permanent packaging solutions.  
Cases with a wide variety of interior configurations and easily customizable.  
Reusable shipping and storage cases and containers meeting the most extreme operating conditions.

11:00-11:20 How to improve the process of governance and continuous improvement regarding business proposals and response to invitation to tender?

(13 Oct.)

## **JACK IN THE BOX**

There are methods and tools enabling TUTORING the choice and the CUSTOMIZATION of the sales arguments (in connection to the response strategy defined during the process of building the offer) and SUPERVISING the content which is subject to CAPITALIZATION (how is the content subject to capitalization being used? How to organize its granularity and the updates? How to identify and assimilate the BEST ARGUMENTING PRACTICES which are subject to capitalization...?).  
Objective: always be ahead of your competitors (impact, pertinence, differentiation and clarity of messages).  
This workshop regards the companies which make bids and tenders with high creativeness or with high profitability issues.

11:20-11:40 High Reliability Systems and Components for Small Satellites

(13 Oct.)

## **ASTRO- UND FEINWERKTECHNIK ADLERSHOF GMBH**

1. Small satellite platform from AFW and the applications for them.
2. Components and subsystems for small satellites. Focus on :  
Smart plug and play components for attitude control systems.  
Power subsystem.  
Structure and mechanism.
3. Optical Payloads (VIS/NIR/MIR/TIR).

11:40-12:00 Bolt tightening tension measurement

(13 Oct.)

## **TRAXX**

The bolted assemble are very common in the industrial field. □ They are tightened by torque, torque and angle or by hydraulic extension.  
We can wonder what is the actual TENSION which can be obtained and how does it change in time?  
Nowadays, the ultrasonic method of bolt tension measurement is easy to use from an industrial point of view.  
Traxx produces the most advanced handheld bolt tension measurement systems.