



19th International Conference
on Surface Treatments in the Aeronautics
and Aerospace Industries

Le Bellevue – BIARRITZ
31st May & 1st June 2012

**INNOVATIVE SURFACE TREATMENTS FACING ENVIRONMENTAL
CHALLENGES**

- CHEMICAL PRODUCTS FOR NEW SURFACE PROPERTIES
- NEW DEVELOPMENTS IN SURFACE TREATMENTS
- ENVIRONMENTALLY FRIENDLY SURFACE TREATMENTS

PROVISIONAL PROGRAMME

INNOVATIVE SURFACE TREATMENTS FACING ENVIRONMENTAL CHALLENGES

31st May & 1st June 2012

THURSDAY 31st MAY

- 10.15 am** **Message de bienvenue au Congrès**
Welcome note
TBC, **INFOPRO COMMUNICATIONS**
- 10.20 am** **Introduction du Maire**
Official Opening
Didier BOROTRA, Senator – **MAYOR OF BIARRITZ**
- 10.30 am** **Introductory note**
Jean-Robert LUC, Director Biarritz Manufacturing Plant, **DASSAULT AVIATION (FRANCE)**

CHEMICAL PRODUCTS FOR NEW SURFACE PROPERTIES

- 10.40 am** **Development and Characterization of Anti-icing Coatings for Aerospace Applications**
Dominik RAPS, **EADS (GERMANY)**
- 11.00 am** **Evaluation of Metal-Containing Amorphous Carbon Coatings for Erosion-Resistant Applications in Aerospace**
Mariusz Bielawski, **NATIONAL RESEARCH COUNCIL CANADA, INSTITUTE FOR AEROSPACE RESEARCH (CANADA)**
- 11.20 am** **Durable Multifunctional Coatings: Novel Properties for the Next Generation of Aerospace Finishing Systems**
Jill SEEBERGH, **BOEING (USA)**
- 11.40 am** **Q&A**
- 11.55 am** **Future Trend - Microstructured Coating for Turbulent Skin Friction Reduction**
Isabell Gradert, **AIRBUS (GERMANY)**
- 12.15 am** **Anti-Contamination and Easy-to-Clean Coatings for Aerodynamic Efficient Surfaces**
Silke Grünke, **AIRBUS (GERMANY)**
- 12.35 pm** **Q&A**

12.45 pm - Lunch break

NEW DEVELOPMENTS IN SURFACE TREATMENTS

- 2.10 pm** **Introductory note**
Patrick GOUDOU, Executive Director, **EASA (FRANCE)**
- 2.20 pm** **Nanostructuring of metallic surfaces with lasers for highest adhesion properties**
Erhard BRANDL, **EADS (GERMANY)**
- 2.40 pm** **Local Pre-Treatment of Aluminium by Pickling Tapes**
Dr. Malte Burchardt, **FRAUNHOFER IFAM (GERMANY)**
- 3.00 pm** **Q&A**
- 3.10 pm** **Corrosion Inhibiting Compounds: New Solutions for the Protection of modern hybrid Airframe Structures**
Hendrick BECKER or Dr. Peter BONS, **CHEMETALL (GERMANY)**
- 3.40 pm** **Work study on the cohesion control between layers of aeronautical adhesive films**
Pierre BOISSELIER and Nicolas MOUYEN, **ADHETEC (FRANCE)**
- 4.10 pm** **Characterization of Oxyde Layers Formed on Aluminum Alloys During New PPG Electrodeposited Structural Paint – Cleansky Ecodesign**
Didier LABOUCHE, **PPG AEROSPACE (FRANCE)**
TBC, **ÉCOLE NATIONALE DE LA CHIMIE (FRANCE)**
- 4.40 pm** **Coffee Break**
- 5.10 pm** **Developments in BOEGEL: a Silane Based Conversion Coating Tailored for Metal Surfaces**
Richard WIRE, **BOEING (USA)**
- 5.30 pm** **“SOL-GREEN” Project: Investigations and Development of Anti-Corrosion Sol-Gel Coatings for Aluminum Alloys used in Aeronautical Industry**
Olivier JAUBERT, **CIRIMAT CARNOT INSTITUTE (FRANCE)**
TBC, **MECAPROTEC (FRANCE)**
- 5.50 pm** **Sol-Gel Solutions for Light Metal Applications**
Kirk KRAMER, **HENKEL (USA)**
- 6.10 pm** **Q&A**
- 6.25 pm** **End of Conferences**

FRIDAY 1st JUNE

ENVIRONMENTALLY FRIENDLY SURFACE TREATMENTS

9.00 am **Welcome note**
TBC

9.05 am **Recent Developments on Bio-based Dry Stripping**
Denis Monette, **ARCHER DANIELS MIDLAND COMPANY (CANADA)**

9.25 am **Completely Chromate Free Exterior Decorative Paint System**
Randy JAHREN, **BOEING (USA)**

9.45 am **Substitution of the Substances of Very High Concern in the Chemical Specialties for Cleaners and Paint Removers**
Louis Verdier, **CHEMETALL (FRANCE)**

10.05 am **Q&A**

10.20 am **Low Energy Processes for Efficient Application and Cure of Fuel Resistant Aircraft Sealants**
Dennis GILMORE, **PPG AEROSPACE (USA)**

10.40 am **Coffee Break**

11.10 am **Development and Implementation of Zinc-Nickel Plating**
Nathalie LE POTTIER, **EUROCOPTER (FRANCE)**

11.30 am **Repair of Deep Corrosion Pittings on Al Alloy by Selective Plating of Zinc-Nickel Alloy**
Sylvie CLAVERIE &/or Yvan THAREAU, **DALIC (FRANCE)**

11.50 pm **Zinc-Aluminium Flake, Green Alternative for the Cadmium and Chromium**
Philippe SPILERS, **APS COATINGS (FRANCE)**

12.10 pm **Al based PVD Coatings as Cadmium Substitutes**
Roberta VALLE, **CENTRO SVILUPPO MATERIALI (ITALY)**

12.30 pm **Q&A**

12.50 pm **Lunch break**

2.15 pm **“APACA” project: New generation hexavalent chromium free anodizing for the protection of aerospace parts**
TBC, MECAPROTEC (FRANCE)

2.35 pm **ECOCOAT Project: Cadmium & Chromium Alternatives**
Malik BOUTOBA, EUROCOPTER (FRANCE)

2.55 pm **Q&A**

3.05 pm **TBC - Green Surface technologies – from technology to implementation**
TBC - Sieglinde ZINZ, CASSIDIAN (GERMANY)

3.35 pm **Coffee Break**

4.05 pm **Characterization and Evaluation Of A Non-Chrome Conversion Coating For Immersion Processes**
Eric MORRIS, DEFT Inc. (USA)

4.25 pm **Aluminium and Aluminium alloys treatment: from the surface preparation to protection**
Brice SOTTIL, COVENTYA (FRANCE)

4.45 pm **Q&A**

4.55 pm **Sliding wear evaluation of Substitute for Hard Chromium**
Cédric POUPON, AIRBUS (FRANCE)

5.20 pm **Can the latest environmentally friendly aerospace Dry Film Lubricants offer the same performance as the higher toxicity coatings they replace?**
James COOK, CURTIS WRIGHT SURFACE TECHNOLOGIES (UK)

5.40 pm **Q&A**

5.50 pm **Closing speech**

6.00 pm **End of Conferences**

7.00 pm **SURFAIR Awards**

7.30 pm **Gala Dinner**