

INVITATION TO THE PUBLIC END OF PROJECT SYMPOSIUM OF THE BOPACS PROJECT

Jan HALM (NLR) as project leader and Thomas KRUSE (AO) as local host invite you to the EU-FP7-BOPACS End of Project Symposium on September 5 & 6 in Hamburg.

Today the application of **bonding technology** for primary aerospace structures is limited due to the certification regulations. State of the art is the widely used chicken rivet which is limiting the benefits of the application of composite bonded joints.

The research followed within the **European project EU-FP7-BOPACS** is focussed on the **certification of a bonded joint** by fulfilling one of the three Means of Comply. Crack growth principles are investigated and crack arrest is achieved by the use of design features.

BOPACS was following a stepwise development approach from coupon via element up to component level testing. For the evaluation of the crack arresting capability of different feature concepts the **Cracked Lap Shear (CLS)** specimen was used for fatigue testing.

For the application scenario on **High Load Transfer Joints (HLT)** the **Wide Single Lap Shear (WSLS)** specimen has been developed. This specimen is representing the generic geometrical conditions of a high load transfer joint, for example a fuselage panel joint.

This type of testing is the next level test setup beyond the basic coupon level for demonstration and investigation of unstable crack growth scenarios and it enables the observation of **crack propagation and arresting mechanism** in case of the presence of a local initial damage in a HLT Configuration.

PARTNERS



BOMBARDIER



AGENDA AND LOGISTICS

Monday 05.09.2016



ZAL

Center for Applied Aerospace Research
Hein-Saß-Weg 22, Hamburg

MORNING



09:30 Welcome Coffee



10:30 Introduction to BOPACS and Test Program

LUNCH



13:00 Coupon testing - Simulation and Benchmark



14:45 Feature Development (Part 1)



16:45 Feature Development (Part 2)

EVENING EVENT



19:00 HARBOUR CRUISE & DINNER



HOTEL SUGGESTION

The Rilano Hotel, Hein-Sass-Weg 40 Hamburg
Info-hamburg@rilano.com

CONTACT

For detailed information on the event or on the project BOPACS please visit <http://bopacs.eu/> or contact:

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Tuesday 06.09.2016



Airbus Plant

Kreetslag 7, 21129 Hamburg
Building 23
Auditorium Henrich Focke

MORNING



08:30 Feature Development (Part 3)



09:45 Element Testing and Proof of Concept



12:00 Wrap up and Closure

LUNCH



13:20 AIRBUS PLANT TOUR



15:30 Symposium Closure

REGISTRATION

BEFORE THE 26TH OF AUGUST

Please write an e-mail with the subject
"EU-FP7-BOPACS SYMPOSIUM" to Thomas
Kruse (thomas.kruse@airbus.com) indicating:

- > Your Name, Company, E-mail Address
- > Your Dedicated Registration for
 - Two Days Meetings
 - Evening Event
 - Airbus Plant Tour