

**4th AIAA Workshop on Benchmark Problems for Airframe Noise Computations  
(BANC-IV)**

[https://info.aiaa.org/tac/ASG/FDTC/DG/BECAN\\_files/\\_BANCIV.htm](https://info.aiaa.org/tac/ASG/FDTC/DG/BECAN_files/_BANCIV.htm)

Organized by AIAA Discussion Group on Benchmark Experiments and  
Computations for Airframe Noise

Co-sponsored by AIAA Aeroacoustics and Fluid Dynamics Technical Committees

Location: **Lyon, France**

**Preliminary Agenda (v. 4.0)**

*Thursday, June 02, 2016*

**08:00 – 08:15 Welcome**

**08:15 – 10:00 Category 1**

**TE Noise (Michaela Herr, DLR) 01:45 hrs**

Michaela Herr (DLR)	Problem Statement + Overview of Contributions 15 min
Fischer, Bertagnolio (DTU Wind Energy) van der Velden (Delft University of Technology) Fassmann, Ewert (DLR) Ribeiro (Exa)	Computational Results 15 min per presentation including 3 min Q&A
Herr, M., all (Summary & Discussion)	30 min.

<b>Break (10:00 – 10:15)</b>	<b>15 min</b>
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**10:15 – 12:15 Category 5**

**ONERA/Airbus LAGOON Landing Gear (02:00 hrs)**

Manoha E. (ONERA)/Caruelle B. (Airbus) Introduction + Measurement Database + Problem Statement	20 min
Manoha E. (ONERA) Summary of BANC-III (2014) contributions	10 min
New contributions :	
Lockard D. (NASA)	15 min each (including 3 min Q & A)
De la Puente F. (ONERA)	
Brionnaud R. (Next Limit Technologies)	
Synthesis and discussion	<b>45 min</b>

<b>Lunch (12:15 – 13:30)</b>	<b>75 min</b>
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**13:30 –17:30 Category 7: 30P30-Modified Slat Configuration (04:15 hrs.)**

Choudhari/Lockard/Khorrami, NASA (Intro)	20 min
Pascioni/Cattafesta, FSU (Measurements in Kevlar wall tunnel)	15 min
Murayama, JAXA (Measurements in hard wall tunnel)	10 min
Bahr, NASA (Measurements in open jet tunnel)	10 min
Murayama, JAXA	15 minutes each (including 3 min Q & A)
Lockard, NASA LaRC	
Ribeiro/Fares/Choudhari, EXA/NASA LaRC	
<b>Break (15:10 – 15:30)</b>	<b>20 min</b>
Zhang, Tsinghua	15 minutes each (including 3 min Q & A)
Housman, NASA ARC	
Ueno, KHI	
Tamaki, U. Tokyo	
Terracol, ONERA	
Spaeth, Boeing	
Summary & Discussion	

*Friday, June 03, 2014***08:30 – 10:30 Category 6****Category 6: DLR/Onera LEISA2 Slat Configuration (02:00 hrs)**

Pott-Pollenske M., Delfs J. (DLR) / Manoha E. (Onera) Introduction + Measurement Database + Problem Statement	25 min
Terracol M. (Onera)	10 min each (including 3 min Q & A)
Sakai R. - Murayama M. (JAXA)	
Le Garrec T. (Onera) – Ribeiro A. (EXA) - Casalino D. (EXA)	
Yser P. – Barré S. (Dassault-Aviation)	
Ewert R. (DLR)	45 min
Synthesis and discussion	

**Break (10:30 – 10:45)****15 min****10:45 – 12:00 Category 4****Partially Dressed Cavity Closed Nose Landing Gear (PDCC-NLG) (01:15 hrs)**

Khorrani, NASA LaRC (Intro)	5 minutes
Rodrigo Vilela De Abreu, KTH	15 min per presentation including 3 min Q&A
Ueno, KHI	
Fernando DE LA PUENTE, ONERA	
Khorrani, NASA LaRC (Summary & Discussion)	25 min

**Lunch (12:00 – 13:15)****75 min****13:15 – 14:05 Category 8****Acoustic Propagation Phase of Airframe Noise Prediction (50 min)**

Zawodny (NASA) / Imamura (U. Tokyo) / Redonnet (ONERA): Overview + Summary of Contributions (BANCs III+IV)	10 min
W. Wolf (UNICAMP): Cat 8.2 benchmark (FWH) + additional investigations (FWH + POD)	15 min incl. 3 min. Q&A
Redonnet & Bulté (ONERA): Cat 8.2 benchmark (CAA) + additional investigations (Array Methods)	15 min incl. 3 min. Q&A

Zawodny (NASA) / Imamura (U. Tokyo) / Redonnet (ONERA): Conclusions / Discussion / Perspectives for BANC-V	10 min
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<b>Break (14:05 – 15:15)</b>	<b>10 min</b>
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**15:15 – 16:45**

**BANC-IV Discussion (& BANC-V Planning)**

Brief Remarks	5 min
New Configurations?	45 min
1. Avallone, TU Delft, <a href="#">Slipstream impingement noise for pylon-mounted tractor propellers</a>	
2. Pott-Pollenske, Delfs (DLR) / Manoha (ONERA), DLR/ONERA SWAHILI Slat Configuration with Sweep Angle	
3. NASA CRM Slat Track Noise	
4. NASA CRM semi-span configuration	
Discussion (Where to go from here?)	35 min
Closing Remarks	5 min
BANC-V investments begin?	