Further Information

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**Scientific Committee**

**Co-chairs:**

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Valentin SILIVESTRU, COMOTI, Romania

**Members:**

Werner Dobrzynski, DLR, Germany  
Sorin Gabroveanu, COMOTI, Romania  
David Lockard, NASA, USA  
Eric Manoha, ONERA, France  
Michel Roger, ECL, France  
Pieter Sijtsma, NLR, The Netherlands

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**Scope of the workshop**

The objective of this workshop is to review recent developments in airframe-noise research and to provide a forum for the presentation and discussion of the latest measurement and prediction techniques. Recent improvements in phased microphone-array techniques enable the localization of aeroacoustic sources, while state-of-the-art optical measurement-systems are able to measure directly the near-field velocity fluctuations. In spite of these new approaches to airframe-noise measurements, there are still open questions regarding the systematic and random errors and related uncertainties which influence the accuracy of measured quantities. The transferability of these results to real aircraft and the impact of background noise levels on measured results represent further important issues for the measurement of airframe noise. On the other hand, computational Aeroacoustics (CAA) has become more and more important within the future quiet aircraft design process, but additional information from experiments for code calibration and validation is needed. The various CAA approaches have different ranges of applicability and accuracy and it is necessary to identify their limits against a sufficient large experimental data base. This workshop provides scientists and engineers from industry, research establishments and universities the opportunity to present new results, exchange ideas and experiences, and to discuss directions of future research projects related to these topics. The main focus will be on promoting the collaboration between experimental and numerical research groups.

**Topics**

- New measurement techniques in airframe-noise testing;
- Recent developments in computational aeroacoustics and code validation;
- Numerical methods for wind tunnel correction (open and closed test section);
- Re-numbering effects in wind tunnel experiments and high Re-number measurements;
- Experimental validation of CAA codes;
- Effects of test setups and model supports;
- Absolute levels in closed test-section measurements and scaling effects;
- Flight tests.

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**Keynote Speakers**

K. Ehrenfried, DLR, Germany  
"Application of Particle Image Velocimetry in Aeroacoustics"

David P. Lockard, NASA, USA  
"CAA Validation and Benchmark Experiments for Airframe Noise: Needs, Challenges and Near Term Prospects"

Eric Manoha, ONERA, France  
"LAGOON: An Experimental Database for the Validation of Landing Gear Noise Prediction Methods"

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**Abstracts**

The language of the workshop will be English. The interested speakers are invited to submit in electronic form (MS Word) their abstracts on no more than 4 pages including authors’ names and affiliations. Authors will be informed of acceptance in July 2009. Abstracts should be sent to the workshop secretary, to the attention of Lars Koop, German Aerospace Center (DLR), Institute of Aerodynamics and Flow Technology, lars.koop@dlr.de. Abstracts accepted for presentation will be collected in the workshop final program.

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**Manuscript**

The speakers are also encouraged to provide their manuscript or their presentation by September 10th 2009 in electronic form (PDF or MS PowerPoint) so as to facilitate the preparation of the CD-Rom proceedings. Note that the maximum page limit for the manuscript is 12 pages. After the workshop appropriate presentations will be recommended for submission in the International Journal of Aeroacoustics (IIA). Therefore, authors interested in publishing in this journal are encouraged to prepare their papers with a quality level consistent with contributions to the archival literature.

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**Presentation**

The time for each presentation will be 30 minutes. The workshop will be informal with ample time for discussion. There will be no parallel sessions.

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**Key Dates**

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<th>Date</th>
<th>Event</th>
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<tr>
<td>26 June 2009</td>
<td>Submission of abstracts</td>
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<tr>
<td>24 July 2009</td>
<td>Notification of acceptance</td>
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<tr>
<td>14 August 2009</td>
<td>Advance registration</td>
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**Palace of Parliament**

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