



## WORKSHOP SECRETARIAT

### Administrative Chair

Assoc. Prof. Dr. A. Jagniatinskis  
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[www.xnoise.lt](http://www.xnoise.lt)



VILNIAUS GEDIMINO  
TECHNIKOS UNIVERSITETAS



18<sup>th</sup> Workshop of the Aeroacoustics Specialists'  
Committee of CEAS, simultaneously  
4<sup>th</sup> Scientific Workshop of the European  
X-Noise EV Network

## WORKSHOP LOCATION

The Workshop will be held in the Faculty of Architecture,  
Vilnius Gediminas Technical University.  
Address: Pylimo str. 26/1, 01136 Vilnius, Lithuania.

### Scientific Chair

Prof. Dr. O. Zaporozhets  
National Aviation University,  
1 Avenue Cosmonaut Komarov,  
03056 Kyiv, Ukraine

## **AIRCRAFT NOISE REDUCTION BY FLOW CONTROL AND ACTIVE/ ADAPTIVE TECHNIQUES**

## REGISTRATION

The registration fee is:

Before August 15: 200 €, Students: 75 €  
After August 15: 300 €, Students: 100 €

For registration you are kindly asked to refer to the  
Workshop website [www.xnoise.lt](http://www.xnoise.lt)



25-26 September 2014

**Vilnius Gediminas Technical University,  
Lithuania**

## KEY DATES

1 August 2014: Submission of abstracts  
11 August 2014: Notification of acceptance  
14 August 2014: Advance registration

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### Organized by:





## **SCOPE OF THE WORKSHOP**

Active flow control is one of the leading areas of research of many scientists and engineers in fluid mechanics. The ability to manipulate a flow field to improve efficiency or performance is of immense technological importance. The potential benefits of flow control include improved performance and maneuverability, affordability, increased range and payload, and environmental compliance. Active control schemes are divided into predetermined or interactive methods. These can be used for tailoring the designs to meet the aerodynamic, acoustic and structural specifications for inboard and outboard noise control. An extensive research work into structure-borne noise transmission has resulted in the development of novel theoretical and predictive tools for complex structures, such as double wall composite shells, representative of advanced airframe concepts.

## **PUBLICATION**

After the workshop the scientific committee will recommend the submission of full paper versions of appropriate presentations for a peer-reviewed publication in a special issue of the International Journal of Aeroacoustics.



## **CALL FOR PAPERS**

The language of the workshop will be English. The interested speakers are invited to submit their abstracts on no more than 2 pages including authors' names and affiliations in electronic form. The speakers are also encouraged to provide their abstracts or their presentations in advance to facilitate the preparation of copies for the attendees. Abstracts should be uploaded according to the instructions on the website.

## **MAIN TOPICS**

- Noise source mechanisms of flow/surface interaction as related to airframe acoustics;
- Active control of noise and related unsteady flows and vibration;
- Noise cancellation through active acoustic treatment, and active source control as related to noise and vibration in the cabin, and within engine ducts and jets;
- Development of associated sensors and actuators;
- Feedback and feed-forward control strategies;
- Noise reduction strategies including devices and methods of circulation and boundary layer control.

## **KEYNOTE LECTURES**

There will be 3 keynote speakers from Industry and Research Establishments to contribute with their presentation.

## **SCIENTIFIC COMMITTEE**

Jan Delfs	DLR, Germany
Gareth Bennett	Trinity College Dublin, Ireland
Dominique Collin	Snecma, France
Victor Kopiev	TsAGI, Russian Federation
Urban Emborg	Creo Dynamics AB, Sweden
Rudolf Maier	EADS, Germany
Franck Clero	ONERA, Germany
Yves Gervais	Université de Poitiers, France
Herve Lissek	EPFL, Switzerland
Oleksandr Zaporozhets	NAU, Ukraine
Aleksandras Jagniatinskis	VGTU, Lithuania