IDEALVENT Deliverable

ACP2-GA-2012-314066-IDEALVENT

Integrated Design of Optimal Ventilation Systems for Low Cabin and Ramp Noise

Deliverable 1.10: VKI Lecture Series

Estimated number of person-months: 2

Actual number of person-months: 2

Contributing partners: VKI, ECL, KTH, LMS

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Approved by: C. Schram (VKI)

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Project start date: 1 Oct 2012 Duration: 48 months

Consortium: VKI (BE, Coord.), DLR (DE), KTH (SE), KUL (BE), ECL (FR), LMS (BE), SNT (SE), LTS (FR), NTS (RU), EMB (BR)

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1 Introduction

The organization f a VKI Lecture Series is an important dissemination action, as it benefits from a worldwide reputation and usually attracts a broad audience of researchers from the academia and industries. The organization of Lecture Series by VKI is scheduled to attract a maximum of audience, taking into account the proximity of other Lecture Series on a similar topic, the availability of the international lecturers, etc. These various constraints have led the consortium to shift upfront the organization of the IDEALVENT closing Lecture Series (D1.10), on the week of the 16-19 November 2015.

2 VKI Lecture Series "Progress in simulation, control and reduction of ventilation noise", 16-18 November 2015

The program of the Lecture Series is indicated in Table 1 below. It should be noted that adjacent with this Lecture Series, VKI organized on Thursday 19th of November 2015 a Workshop in the framework of the Marie Curie ITN project FLOWAIRS, which shares some of the scientific issues addressed by IDEALVENT. It was decided to group the two events in order to maximize the reciprocal visibility of the respective research outcomes.

Table 1: Program of the IDEALVENT closing Lecture Series (D1.10)

Date	**Course title**	**Author** **Affiliation**
Monday 16 November 2015	Fundamentals of ducted propagation	S. Rienstra TU/e, The Netherlands
	Fundamentals of aeroacoustic analogies	C. Schram VKI, Belgium
	Fan tonal and broadband noise modelling	M. Roger ECL, France
	Numerical simulations of low-speed cooling fans	S. Moreau, U. Sherbrooke, Canada
Tuesday 17 November 2015	High-order numerical modeling of ducted propagation	H. Bériot Siemens PLM, Belgium
	Multiport eduction for ducted components	M. Abom KTH, Sweden
	CFD-based modelling of sound generation by ducted discontinuities	W. Polifke TUM, Germany
	Visit of the VKI laboratories	
Wednesday 18 November 2015	Advanced liner analytical modelling	Y. Aurégan LAUM, France
	Noise attenuation by advanced materials	T. Elnady Ain Shams Univ., Egypt
	Uncertainty Quantification applied to aeroacoustic predictions	H. Boden KTH, Sweden
	Flow-acoustic resonances in corrugated pipes	J. Golliard TNO, The Netherlands

3 Attendance

The attendance to the Lecture Series follows a classical distribution between academia and industries for such relatively advanced topics, with 15 participants from academia and 6 participants from research centers and industries. Geographically-speaking, the audience reflects the excellent international visibility of the VKI Lecture Series, as indicated in Table 2.

Table 2: geographic distribution of the attendance to the IDEALVENT closing Lecture Series.

Country	Nbr of participants
Belgium	2
China	2
France	4
Germany	2
India	2
Italy	4
Korea	1
Russia	1
Spain	1
Turkey	2
Total	*21*

4 Evaluation forms

As always with VKI Lecture Series, a questionnaire was distributed to all participants, asking for their remarks, criticisms and suggestions for future courses. The questionnaires, which can be filled anonymously or not at the discretion of the participants, indicate overall an excellent satisfaction level, with a good balance between experimental and theoretical/numerical topics.