

2013 International Symposium on Innovative Technology of Noise & Vibration Measurement and Control for Aircraft

2013 “飞行器噪声振动测量与控制创新技术”国际研讨会

2013 Meeting of International Joint Research

Center of Innovative Technology of Acoustics and Vibration (CITAV)

2013 “声学振动创新技术”国际合作研究中心会议

9~13 September 2013, Hangzhou, China	2013年9月10~13日, 中国 杭州
Organized by Zhejiang University of Technology. Sponsored by	
Zhejiang Association of Vibration Engineering, Zhejiang Key Laboratory of Signal Processing	
主办: 浙江工业大学 协办: 浙江省振动工程学会, 浙江省信号处理重点实验室, 浙江大学	

Itinerary/日程

09/09/2013, Monday				
Morning	Reception for international participants			报到
Afternoon	Reception for international participants			报到
09/10/2013, Tuesday				
Morning	Reception for national participants			报到
Afternoon	Reception for national participants	CITAV Meeting		报到
09/11/2013, Wednesday				
Morning	Symposium			会议
Afternoon	Symposium			会议
Evening	Banquet			晚宴
09/12/2013, Thursday				
Morning	Vibration Workshop I (Univ.)	Vibration Workshop II (Com.)		会议
Afternoon	Aeroacoustics Workshop I (Univ.)	Aeroacoustics Workshop II (Com.)		会议
Evening	Banquet			晚宴
09/13/2013, Friday				
Morning	Tour	CITAV Meeting		参观
Afternoon	Tour			参观
Evening	Banquet			晚宴
09/14/2013, Saturday				
		Closing		结束

Remarks

Keynote Speech/主题演讲:	
Dr. Lawrence A. Bergman (UIUC, USA)	
Dr. Cyrille Breard (COMAC, China)	
Dr. Franck Perot (France)	
Registration Fee/注册费:	
Invited Keynote Speaker: free	
Individual Participant: to be determined	
Address/地址:	
18 ChaoWang Road, Hangzhou, China, 310014 / 杭州市潮王路18号, 浙江工业大学, 310014	
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09/12/2013, Thursday	
Morning	Workshop - Vibration I
	Lecturer: Dr. Chin-An Tan, Dr. Lawrence A. Bergman
Room 1	1) Vibration signal analysis and Fourier transform
	2) Fundamentals of vibration and modal analysis of multi-degrees-of-freedom systems physics and orthogonality of modal vectors, proportional damped systems
	3) Vibration measurements and testing
	Coffee Break
	4) Experimental modal analysis: frequency response function (FRF), curve fitting technique of transfer functions
	5) Damping in vibration
	Questions & Discussions
Room 2	Workshop - Aeroacoustics I
	Lecturer: Dr. Franck Perot, Dr. Huancai Lu
	1) Fundamentals of aeroacoustics:
	* What is aeroacoustics?
	* Example of academic and/or applications,
	* What are the key physical mechanisms involved in aeroacoustics?
	* Noise sources, noise propagation and diffraction
	* Flow-induced noise transmission through a surface
	2) Experimental aeroacoustics:
	* Wind-tunnel and facilities
	* Typical measurements methods
	* Difficulties and specificities of aeroacoustics measurements
	Coffee Break
	3) Industrial applications:
	* Airframe noise,
	* Landing gear noise,
	* Turbo-machine noise,
	* Jet noise,
	* Acoustic liners,
	* Rotating fans,
	Questions & Discussions
Afternoon	Workshop - Vibration II & Aeroacoustics II
	Lecturer: B&K Expert
Room 2	1) Sound & vibration measurement technology
	2) Case study
	Coffee Break
	Questions & Discussions