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Opening address

After the success of third edition in 2012, the French-speaking international symposium on the Experimental Vibratory Analysis returns for its fourth edition in 2014 by integrating the experimental/numerical combined approaches! The increasingly increasing share of the vibratory analysis in the various branches of aeronautics to car industries while passing by machining, maintenance or civil engineering, make of this appointment a need. The investigated methods also made important great strides. Indeed, the vibratory analysis is not only a simple complementary tool. It is the base of many powerful techniques which make it possible to probe the structures, even the interior even of materials during their service, to detect the defects/damages and to follow their evolution in real-time, ...

AVE2014 conference aims to bring together scientists resulting from Industry, Great National organizations and University laboratories interested by the recent developments of the experimental analysis of the structures in dynamics. This topic must be included/understood in a rather broad direction, it concerns:

1) Progress of the experimental vibratory analysis;
2) Information which one can draw from these analyzes.

This conference swept a rather vast field, whose central element was the exploitation of experimental measurements and will guarantee a profitable exchange between the actors of the field like industrials, researchers and experts.

More than 130 participants have attended the three plenary conferences of international experts in the field: Pr. David J. Ewins (UK), Pr. Nuno Maia (PT), Pr. Jean-Claude Golinval (BE) and an invited conference Pr. Ioan D. Landau (FR), eighteen thematic conferences in the following topics: new developments of the experimental modal analysis; new materials like optical-fiber; Non stationary processes; Vibration-based condition monitoring; Non-linear vibrations; Vibratory chain in closed loop (specification of tests and vibratory control) and Vibration-based condition monitoring. In this edition, 50% of the lecturers come from seven foreign countries (Algeria, Belgium, Canada, Italy, Morocco, Portugal and the UK).

In parallel of AVE2014, a professional conference ASTELAB has been jointly organized with the referents ASTE exhibitors in the field of the experimental vibratory analysis and the tests in environment like Actidyn, Alliantech, DEWEFRANCE, HBM N-code, HGL Dynamics, IMV, Intespace, LMS Siemens, m+p international, PCB Piezotronics, Polymesure, Texys international and Viaxys.

This significant event for the world of research in vibratory mechanics has held from November 18th to 20th 2014 at the INSA Center Loire Valley and the Laboratory of Mechanics and Rheology, Campus of Blois, France.

The reception of this conference in Blois offers to the city an international radiation in the field of research but also an important tourist visibility. The lecturers will profit thus from a guided visit of the old city of Blois, of a dinner of official reception in the room of the trophies of the Castle of Cheverny with an animation around the wines of Cheverny preceded by a visit of the Cheverny Castle as well as a "insolit" visit of the Royal Castle of Blois to enclose the meeting.

More information on the site: `http://ave2014.sciencesconf.org`.

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