



## INTERNATIONAL SYMPOSIUM ON STRUCTURAL HEALTH MONITORING AND NON-DESTRUCTIVE TESTING

### Organization committee

**WATSON team** (Wave-based Analysis  
Techniques for Structural On-line monitoring  
and Non-destructive testing)

### Laboratory of Vibration and Acoustics

#### INSA Lyon

25-bis, avenue Capelle,  
bâtiment Saint Exupéry  
69621 Villeurbanne, FRANCE  
E-mail : lva@insa-lyon.fr

### Registration, information and contact

<http://lva.insa-lyon.fr/symposium2013>  
[watson2013@listes.insa-lyon.fr](mailto:watson2013@listes.insa-lyon.fr)

[C.L.T.] [www.insta.fr](http://www.insta.fr) Crédits photos : © FOTOLIA

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### TOPICS

- Ultrasounds
- Acoustic
- X-rays
- Thermography
- Simulation
- Data handling
- Data fusion

### FIELDS

Energy, Aerospace, Transport, ...

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The aim of the Symposium is to provide an overview on the latest breakthroughs in Structural Health Monitoring (SHM) and Non-Destructive Testing (NDT) and their interactions with various industrial fields.

It is organized in a series of invited lectures given by internationally acknowledged experts/researchers in the field

This symposium will take place at INSA-Lyon, which is located close to the city center and can be easily reached by public transportation system.

## Invited speakers

### **Leonid Gelman (Condition Monitoring)**

Novel Signal Processing Techniques for Condition Monitoring  
Chair in Vibro-Acoustic Monitoring  
Department of Applied Mathematics and Computing  
Cranfield University, UK

### **Tomasz Barszcz (SHM & Condition Monitoring)**

Monitoring of wind turbines - bridging industry and research  
President of EC Systems  
AGH University of Science & Technology, Krakow, Poland

### **Gerd Dobmann (NDT)**

On-line monitoring of material degradation due to fatigue by using sensor principles based on micromagnetic and ultrasonic NDT  
Fraunhofer-IZFP, Saarbrücken, Germany

### **Hervé Trétout (NDT)**

Dassault Aviation, France

### **Xavier Maldague (NDT by Infra-red thermography and vision)**

Infrared Thermography for NonDestructive Testing: Potentials and Applications  
Computer Vision and systems laboratory  
Laval University, Quebec, Canada

### **Etienne Martin (NDT for nuclear industry)**

NDT for nuclear industry : needs and trends for the future  
EDF, Direction Production Ingénierie, CEIDRE, Saint Denis, France

### **Patrice Masson (SHM - acoustics)**

Increasing the robustness in damage imaging  
Acoustic group (GAUS)  
Sherbrooke University, Québec, Canada

### **Frederic Cegla (NDE)**

Manual UT vs permanently installed sensors  
Mechanical Engineering Department, Imperial College of London, UK