PRESENTATION
Since its very first edition in October 1994 the AIVELA Conference on Vibration Measurements by Laser Techniques has established itself as the international forum where research ideas and technological innovation on Laser Vibrometry were presented and exchanged. Ancona, an ancient and fascinating Italian town situated on the Adriatic coast, became the biennial destination of the international laser vibrometry community, hosted by AIVELA at the premises of the local university (today Università Politecnica delle Marche).

The event was initially focused on Vibration Measurements by Laser Techniques and it immediately met large consensus among the International Research Community. In 2010 the Scientific Committee decided to widen the topics of the event by including also noncontact techniques and the name of the event was changed to International Conference on Vibration Measurements by Laser and Noncontact Techniques. The Conference aims at creating an active and stimulating forum where current research results and technical advances can be exchanged and the development of new systems for laboratory use, field testing and industrial application can be promoted. For this reason, experts in vibration and acoustics, manufacturers and authorities in the field of optical and non-invasive instrumentation and industrial users of such measurement devices have come from all over the world to present their activities and innovative approaches to vibration measurements.

TOPICS
Papers are sought on every aspect of Vibration Measurements by Laser and Noncontact Techniques; the following list of topics is given as guidance:

MEASUREMENT TECHNIQUES
LASER DOPPLER VIBROMETRY
FULL FIELD INTERFEROMETRIC TECHNIQUES
HOLOGRAPHIC TECHNIQUES
ELECTRONIC SPECKLE PATTERN INTERFEROMETRY (ESPI)
SHEAROGRAPHY
SPECKLE TECHNIQUES
FIBER BRAGG GRATING (FBG)
VISION BASED TECHNIQUES
OPTICAL SENSORS
RADAR LASER
MICROWAVE INTERFEROMETRY
ULTRASONIC TECHNIQUES
THERMOELASTICITY
PHOTOELASTICITY
SIGNAL PROCESSING TECHNIQUES
MICROSCOPIC LASER-DOPPLER VIBROMETRY
MULTI-CHANNEL LDV
NEW COMPONENTS FOR LDV
PHOTONICS INTEGRATED CIRCUITS FOR LDV
TECHNIQUES TO AVOID SPECKLE EFFECTS
PARAMETER IDENTIFICATION FROM LDV-DATA (LDV SPECTROSCOPY)
VIBRATION DETECTION IN OPTICAL COHERENCE TOMOGRAPHY
TECHNICAL SOLUTIONS FOR SUB-FEMTOMETER LDV

APPLICATION AREAS
ACOUSTICS
ACTIVE AND PASSIVE NOISE & VIBRATION CONTROL
VIBRO-ACOUSTICS AND NOISE, TESTING, NOISE
VIBRATION HARSHNESS NVH AND CONTROL
MODAL ANALYSIS
METROLOGY, CALIBRATION AND STANDARDS
NON DESTRUCTIVE TESTING AND DAMAGE DETECTION
INDUSTRIAL DIAGNOSTICS AND QUALITY CONTROL
CIVIL STRUCTURES AND INFRASTRUCTURES
LASERS IN ART CONSERVATION
LASER MEASUREMENTS IN MICROSYSTEMS & NANO TECHNOLOGIES
TRANSPORT: NOISE VIBRATION HARSHNESS NVH
COMFORT SAFETY
SECURITY
ROTATING MACHINERY
VULCANOLOGY, EARTHQUAKE ENGINEERING
NOISE & VIBRATION IN AGRICULTURE
FOOD PROCESSING
INDUSTRIAL PROCESSING MONITORING AND CONTROL
ELECTROMOBILITY
GRAVITATIONAL WAVE DETECTION
CAVITY OPTOMECHANICS

LANGUAGE
The official language of the Conference is English.

CALL for PAPERS
Extended abstracts on the topics of the conference must be sent to the Conference Secretariat not later than 24th April 2023. Abstracts should include:
1. Title of paper;
2. Full names of all Authors (the name of the Presenting Author must be underlined) and Affiliation;
3. Text (about 500 words plus supporting figures).

Accepted authors will be notified their abstract acceptance and given proper instructions for presentation by 29th April 2023.

IMPORTANT DEADLINES
Abstract submission
24 April 2023
Abstract acceptance
29 April 2023
Early registration (discounted fee)
5 May 2023

PROCEEDINGS
The Conference proceedings will be published in electronic format after the event by an internationally renowned Publishing House and indexed in the leading databases of scientific & engineering literature, including SCOPUS, ISI Web of Science, etc. Accepted authors will be given details and instructions.

INVITED LECTURES
Keynote and Invited Lectures will be delivered by leading personalities in the field of vibration measurements by laser and non-contact techniques.

TUTORIALS
The Conference Programme will also include Tutorials held by leading instrumentation manufacturers.

EXHIBITION
An exhibition is planned to enable participating organisations to bring their products directly to the attention of potential customers. Leading manufacturers of laser vibrometer systems, non-contact instrumentation and systems for vibro-acoustic testing will exhibit. Additional information can be obtained by returning the Pre-Registration Form.

SHORT COURSE
A one-day tutorial course will be held the day before the Conference to provide the fundamentals of vibration measurements by optical techniques. The course will include theoretical lectures in the morning and hands-on lab sessions in the afternoon.

VENUE
The event will be held in Ancona, a fascinating Dorian town on the Adriatic coast in central Italy, surrounded by the breathtaking scenery of the Conero Riviera.

CONTACT INFORMATION
For information, contact:
A.I.V.E.L.A.
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e-mail: aivela@univpm.it
https://www.aivela.org
15th International Conference on VIBRATION MEASUREMENTS by LASER and NONCONTACT TECHNIQUES & SHORT COURSE

Pre-registration Form
Please return to:
A.I.V.E.LA. Conference Secretariat
aivela@univpm.it

Title (Mr, Ms, Dr.) __________________________
First Name __________________________
Surname __________________________
Company __________________________
Section __________________________
Address __________________________
Post code/ City __________________________
Country __________________________
Telephone __________________________
Fax __________________________
E-mail __________________________

Cross one or more entries:

☐ I am interested in the Conference
☐ I am interested in the Short Course
☐ I am interested in exhibiting products and would like to have information on Exhibition facilities and fees
☐ I would like to present a paper

Subject or title of the paper __________________________
Suggested session __________________________
Date __________ Signature __________________________

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Call for papers
15th Intl CONFERENCE on VIBRATION MEASUREMENTS by LASER and NONCONTACT TECHNIQUES & SHORT COURSE

Ancona, Italy
20th – 23rd June 2023

Organised in collaboration with:

https://www.aivela.org/15th_conference/