

## International Conference

# The ACOUSTICS of ANCIENT THEATRES

September 18-21, 2011,

University of Patras, Conference and Cultural Center,  
Patras, GREECE



European Acoustics Association



Hellenic Institute of Acoustics



## CALL FOR PAPERS

The Conference on *The Acoustics of Ancient Theatres* is the first on this topic and is jointly organized by the European Acoustics Association (E.A.A.) and the Hellenic Institute of Acoustics (HEL.IN.A.) with the assistance of the E.A.A. Technical Committee on Room and Building Acoustics and the Italian Acoustical Association (A.I.A.). The Conference aims to bring together experts to present and discuss all aspects and findings related to the acoustic properties of these unique ancient monuments which are largely located around the Mediterranean region and are often still used for public performances of theatrical plays, drama, speech and music. There is an ever growing interest for the renowned acoustic performance of such outdoor and roofed auditoria which since ancient times have given a significant contribution to the evolution of the art of live performance, being also an important foundation for the science of acoustic communication engineering.

### Location

The Conference will be held in the city of Patras, situated in an attractive location in Southern Greece, with access and visits to the famous ancient theatre of Epidaurus and other Hellenistic and Roman era theatres and odeia.

### Topics

The Conference program will include keynote speeches, invited presentations in structured sessions, contributed papers, an in-situ acoustics measurement workshop and a demo room with virtual acoustic presentations of ancient theatres and buildings. Prospective authors are invited to submit manuscripts on topics related, but not limited to:

#### **Acoustic modeling and analysis**

*Sound field analysis of the ancient outdoor theatres*

*Acoustic computer models*

*Design properties and environmental factors*

#### **Acoustic measurements**

*Single channel and multi-channel response measurements*

*Microphone array and binaural measurements*

#### **Signal processing and virtual reconstructions**

*Processing and analysis of responses and soundfield*

*Virtual acoustic reconstruction of ancient buildings*

#### **Roofed theatres, odeia and related ritual spaces**

*Analysis and modeling of roofed theatres*

*Analysis and modeling of Public and Ritual buildings of the antiquity*

#### **Perceptual and qualitative aspects**

*Speech intelligibility and subjective preference*

*Music performance in the ancient theatres and odeia*

*Spatial and other qualitative aspects of the soundfield*

#### **Acoustic Archaeology**

*Musical instruments of the antiquity*

*Language and speech-specific aspects of ancient theatre*

*Comparisons and historic – geographical evolution in theatre design*

## General Co-chairs

### John Mourjopoulos (GR)

Professor, Electrical and Computer Engineering Dept., University of Patras, Vice-President, Hellenic Institute of Acoustics

### Stamatis Vassilantonopoulos (GR)

Assist. Professor, Electrical and Computer Engineering Dept., University of Patras

## Organising Committee

### Michael Taroudakis (GR)

Professor, Dept. of Mathematics, University of Crete, President, Hellenic Institute of Acoustics

### Patrizio Fausti (I)

Assoc. Professor, University of Ferrara, Chairman, E.A.A. Technical Committee on Room and Building Acoustics

### Dimitris Skarlatos (GR)

Assoc. Professor, Mechanical Engineering Dept., University of Patras

### Androniki Chrisafi (GR)

Archaeologist, Administrator, Conference Center, University of Patras

## Scientific Committee

### Jens Blauert (D)

Emeritus Professor, IKA, Bochum

### Michael Vorländer (D)

Professor, RWTH Aachen University, Institute of Technical Acoustics

### Jean-Dominique Polack (FR)

Professor, Université Pierre et Marie Curie, Paris

### Luigi Maffei (I)

Professor, Second University of Naples

### Angelo Farina (I)

Professor, University of Parma

### Jens Holger Rindel (DK)

Professor, Technical University of Denmark, Odeon A/S

### Roberto Pompili (I)

Professor, University of Ferrara

### F. Zehran Yuksel Can (TR)

Professor, Yildiz Technical University, Instabul

### George Cambourakis (GR)

Assist. Professor, National Technical University of Athens

## Publications Chair

to be announced



## Conference Highlights

- Access and visit to outdoor ancient theatres (Epidaurus, the Roman Odeion of Patras and other lesser known ancient theatres)
- In-situ measurement workshop (Roman Odeion of Patras)
- Real-time acoustic rendering workshop with demos and comparison to other ancient theatres, contemporary venues and well-known buildings
- Plenary sessions and presentations for related EU projects
- Invited speakers from related and inter-disciplinary fields
- Structured sessions to cover all aspects and geographical-historical evolution of ancient theatres
- Parallel sessions on other ancient buildings (e.g. roofed odeia) and on acoustic archeology
- Attractive location in the city of Patras, at close proximity to ancient theatres and other important sites (ancient Olympia and Delphi)
- Complementary social program and activities

## Important Deadlines

Call for papers and special sessions proposals	<b>October 15, 2010</b>
Deadline for proposal of special sessions or workshops	<b>January 15, 2011</b>
Notification of acceptance of special sessions or workshops	<b>January 31, 2011</b>
Deadline for submission of abstracts	<b>April 15, 2011</b>
Notification of acceptance of papers	<b>May 1, 2011</b>

## Paper format and submissions

Manuscripts will be submitted for Full paper review

*Length and format to be announced*

Selected papers to appear in ACTA-ACUSTICA united with ACUSTICA following a peer reviewing process

**Please follow announcements on:**

**<http://www.ancientacoustics2011.upatras.gr>**

