



# Phononics

## 2011



## INTERNATIONAL CONFERENCE ON PHONONIC CRYSTALS, METAMATERIALS & OPTOMECHANICS

**May 29<sup>th</sup> – June 2<sup>nd</sup>, 2011 – Santa Fe, USA**



<u>Themes</u>	<u>Timeline</u>
Phononic crystals	1. 15 Jan, 2010: Extended abstract deadline
Phononic metamaterials	2. 15 Jan, 2010: Student Fellowship deadline
Wave propagation in periodic structures	3. 15 Mar, 2011: Notification of acceptance
Nano-scale phonon transport	4. 1 Apr, 2011: Early registration deadline
Phononic MEMS and RF applications	5. 29 May, 2011: Reception and onsite registration
Optomechanics	6. 30 May, 2011: Technical program begins
Fabrication and characterization for phononics	7. 3-4 Jun, 2011: Post-event social program



### Mission

*Whether examined at the nanoscale, microscale or larger scales, the analysis and manipulation of phonons (aka phononics) is opening up a new technological frontier with a potential impact that could match that of electronics almost half a century ago. Phononics encompasses a range of interconnected disciplines, usually labeled in terms of the type of host "material" that provides the medium for phononic wave*

*propagation, e.g. phononic crystals, metamaterials, superlattices, periodic structures etc. The coming-of-age of these closely-related disciplines provides a converging point of historical significance for the science of phonons. It is now timely for a large-scale international forum to be established and inaugurated to unify all the emerging areas mentioned in the Themes list under one scope.*

**Conference Chair: Prof. Ihab F. El-Kady,  
Sandia National Laboratories (USA)**

**Conference Co-Chair: Prof. Mahmoud I. Hussein,  
University of Colorado at Boulder (USA)**

### International Organizing Committee (IOC)

- Prof. Abdelkrim Khelif, Georgia Tech/CNRS (USA/France)
- Prof. Chiara Daraio, Caltech (USA)
- Prof. Jose Sanchez-Dehesa, Univ. Politecnica de Valencia (Spain)
- Prof. Massimo Ruzzene, Georgia Tech (USA)
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- Dr. Roy H. Olsson –III, Sandia National Laboratory (USA)
- Prof. Tsung-Tsong Wu, National Taiwan University (Taiwan)

### Technical Organizing Committee (TOC)

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- Linda L. Wood, Sandia National Laboratories (USA)
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