

## Report of the Activities of the Optical Methods Technical Division 2010-2011

### Officers

Chair: Katia Genovese, University of Basilicata  
Vice-Chair: Helena Jin, Sandia National Labs California  
Secretary: Sanichiro Yoshida, Southeastern Louisiana University

During the 2010 TD Annual Meeting ten potential sessions have been proposed for the 2011 Conference:

- Inverse methodology based on full-field optical methods for applications in biomechanics – Katia Genovese and Stephane Avril
- Optical methods in MEMS and nanotechnology –Cosme Furlong
- Optical methods for high-rate applications (coorganized with optical TD) – Helena Jin
- Modeling and numerical analysis for optical methods – Prof. Yoshida
- 3D Imaging techniques – Prof. Marie
  - Optical methods in Nano and Micromechanics (3sessions) –Profs. Cesar Sciammarella and Ramon Rodriguez-Vera
- Hybrid optical methods - Dr. Sharlotte Kramer and Pin Wu
- Photoelasticity-Prof. Terry Chen

The oncoming 2011 SEM Conference will include the following sessions organized by fellows of the Optical Method Division:

- Session 004 Identification from Full-field Measurements - Biological Systems with the keynote presentation of Dr. J.D. Humphrey.

*Co-organized with Biological TD and Inverse Methods TD*

- Session 009 3D Imaging Applied to Experimental Mechanics I

*Organized by Dr Maire*

- Session 017 3D Imaging Applied to Experimental Mechanics II (Monday Early Afternoon)

*Organized by Dr Maire*

- Session 025 3D Imaging Applied to Experimental Mechanics III (Monday Late Afternoon)

*Organized by Dr Maire*

- Session 033 Modeling and Numerical Analysis in Optical Methods I

*Organized by Dr S. Yoshida*

- Session 041 Modeling and Numerical Analysis in Optical Methods II with the keynote presentation of Dr. J. Pontes, Dr. D. Walgraef, Dr. C.I. Christov.

*Organized by Dr S. Yoshida*

- Session 051 Optical Techniques for MEMS and Nano

*Co-organized with MEMS TD*

-Session 057 Displacement-Metrology Measurements-Recent Advances I

*Organized by Dr C.A. Sciammarella*

- Session 065 Displacement-Metrology Measurements-Recent Advances II

*Organized by Dr C.A. Sciammarella*

- Session 073 Displacement-Metrology Measurements-Recent Advances III  
*Organized by Dr C.A. Sciammarella*

- Session 081 Displacement-Metrology Measurements-Recent Advances IV  
*Organized by Dr C.A. Sciammarella*

- Session 097 Displacement-Metrology Measurements-Recent Advances V  
*Organized by Dr C.A. Sciammarella*

- Session 111 Displacement-Metrology Measurements-Recent Advances VI  
*Organized by Dr C.A. Sciammarella*

for a total of 12 sessions.