

Preface

This volume contains a series of technical papers presented at the Fifth International Symposium on Experimental Mechanics and Ninth Symposium on Optics in Industry (ISEM-SOI2015) organized by the Society for Experimental Mechanics (SEM), Academia Mexicana de Óptica, and Centro de Investigaciones en Óptica (CIO) and held in Guanajuato, Guanajuato, Mexico, August 17–21, 2015.

Symposia were dedicated as part of the celebrations of the International Year of Light 2015 and the XXXV anniversary of the founding of the CIO and having a general topic relating to the emerging challenges for experimental mechanics in energy and environmental applications.

This collection of papers presents early findings of experimental and computational investigations on important areas of Experimental Mechanics. Symposia were intended to be interdisciplinary forums for engineers, technicians, researchers, and managers involved in all fields of Optics, Opto-mechatronics, Mechanics, and Mechanical Engineering. Overall, papers were assigned to the following relevant tracks:

Non-destructive methods

Dynamic and static structure and substructure testing

Multi-scale fields

Advanced new materials and their characterization

Environmental measuring techniques

The organizers thank the authors, presenters, and session chairs for their participation, support, and contribution to these Symposia.

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