



Foreword

8th International Symposium on Electrochemical Impedance Spectroscopy (EIS 2010)

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The International Symposia on Electrochemical Impedance Spectroscopy started as a result of the great development of the technique in the 1980s, the first having been organized by Claude Gabrielli in Bombannes, France in 1989.

An important feature of these meetings is that all participants stay together at the meeting venue for the entire duration of the event, allowing for fruitful discussions that bring new insights into the latest developments of the technique with the leading scientists in the field. This ambience is further promoted by group activities such as all the meals, excursion, gala dinner and other social events that stimulate a sense of a scientific community.

The particular philosophy of the EIS symposia has led to successful meetings organized by Digby Macdonald in Santa Barbara, CA, USA (1992), Jean Vereecken in Ysermonde, Belgium (1995), Oscar Rosa Mattos in Angra do Reis, Brazil (1998), Pier Luigi Bonora in Marilleva, Italy (2001), Mark E. Orazem in Cocoa Beach, FL, USA (2004) and Nadine Pébère in Argelès-sur-Mer, France (2007). Because of that, the International Symposia on Electrochemical Impedance Spectroscopy have certainly become the most important events on the subject of EIS.

The 8th EIS symposium was held at Carvoeiro, Algarve (Portugal), on June 6–11, 2010, again bringing together the experts on the most recent advances and applications of Electrochemical Impedance Spectroscopy, in the fields of Corrosion and Coatings, Passivation, Electrochemical Kinetics, Mechanisms and Modelling, Electronic and Ionic Conducting Polymers, Solid State Systems, Energy Storage, Batteries and Fuel Cells, Biomedical and Biological Systems, Localised Impedance Measurements and Data Processing.

Gathering 188 participants from 32 countries, 205 presentations were made during EIS 2010, in the form of 5 plenary lectures, 10 keynote lectures, 104 oral presentations and 86 posters. During the event, a permanent exhibition of EIS equipment was also organized.

This Special Issue of *Electrochimica Acta* offers a selection of papers presented during the symposium and covers all the different domains of electrochemical impedance.

We wish to express our gratitude to all the members of the Organizing Committee and to the students of the Corrosion and Environmental Effects Group of Instituto Superior Técnico, who worked together to enable this conference to continue the EIS tradition. We also thank the members of the International Scientific Committee for giving us the opportunity to host the 2010 edition in the beautiful scenery of Portugal's South Coast and the organizations that sponsored the event.

Finally, we thank the authors of the papers for submitting their manuscripts to this Special Issue, to the referees for their efforts and the Editor-in-Chief of *Electrochimica Acta*, Prof. Sergio Trasatti, for his patience and support.



Opening session

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Welcome dinner at the end of the first day



Exhibition hall