Preface on the special issue 2nd workshop on electrochemical engineering: new bridges for a new knowledge on electrochemical engineering

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Published online: 20 October 2018
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The Working Party on Electrochemical Engineering (WPEE) is one of the divisions of the European Federation of Chemical Engineering (EFCE). Since the last quarter of the twentieth century, it has aimed to promote knowledge, applications and networking in the fields of electrochemical engineering and applied electrochemistry, not only in the geography of Europe but, by extension, in the whole World. To reach this objective, this group organizes every three years a scientific meeting (so-called European Symposia on Electrochemical Engineering), an educational event (named as European Summer Schools on Electrochemical Engineering) and an award (The Carl Wagner Medal of Excellence in Electrochemical Engineering).

Recently, the Working Party has realized that there is a larger necessity for scientific and technical discussion in this field. This need is particularly relevant within congresses focused on chemical engineering, such as the well-known European and World Congresses on Chemical Engineering. For this reason, in order to allow setting a place for discussion on Electrochemical Engineering within general congresses on Chemical Engineering, the WPEE has designed a new type of event: the Workshops on Electrochemical Engineering. These workshops consist of topical meetings tailored to the aim of the general Congresses, fitted into their frame and organized with the support of the national community of electrochemists and electrochemical engineers, in charge of the organization of the general congress.

The first edition of the Workshop on Electrochemical Engineering was held in Nice (France), within the 10th European Congress of Chemical Engineering (ECCE10) in 2015 and it was focused on strengthening the collaboration between companies and academics within the electrochemical engineering community, according to the general motto of that congress. The second edition was associated to the 10th World Congress of Chemical Engineering (WCCE10), held in Barcelona (Spain) from October 1st to 5th 2017.

This second European Workshop of Electrochemical Engineering aimed to combine the great impulse of electrochemical technology in many developing regions and connected it with the tradition of the European community of researchers, of course not excluding researchers from all other regions of the World. This event was co-organized with the Spanish task group Excellence Network on Environmental and Energy Applications of the Electrochemical Technology. A total of 40 oral communications and 20 posters were presented in the Workshop. Participants were researchers and industrialists, with interests in electrochemistry or electrochemical engineering, which did short research presentations that finished with a round table discussion of strategic topics in electrochemical engineering and with a ‘partnering’ session to discuss new ways to collaborate and to deal with associated problems and opportunities. This workshop was integrated into the World Congress of Chemical Engineering and in one of the most important World trade fairs in the chemical industry: the EXPOQUIMIA, which involved in many different activities more than 10,000 people related to chemical engineering for a whole week.

On its mission of promoting electrochemical technology, the *Journal of Applied Electrochemistry* accepted to publish a special issue of this 2nd Workshop. This special issue collects several of the works presented in this 2nd Workshop on Electrochemical Engineering, with topics ranging from environmental remediation using electrochemical technologies to energy storage using batteries. It helps to confirm

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that electrochemical technology is a very active discipline nowadays with a great development of very promising technologies that, for sure, will have a very important impact on the future's Society.

We would like to thank *Journal of Applied Electrochemistry* for accepting this challenge and to all participants of the Workshop for making this event so interesting and fruitful.

In addition, we would like to encourage all the members of the Electrochemical Engineering Community to attend the next 3rd Workshop on Electrochemical Engineering: Industrial Electrochemistry and Electrocatalysis, which will be integrated in the next 11th European Congress of Chemical Engineering to be held in Florence (Italy) in 2019.