

Division 3 Chair elections - (Electrochemical Energy Conversion and Storage)



Prof. Thierry BROUSSE

University of Nantes – FRANCE

<https://orcid.org/0000-0002-1715-0377>

Thierry Brousse (55 years old) is a Full Professor of Materials Science at the University of Nantes. He received his Master's degree in Materials Science and Engineering (1987) and his PhD degree (1991) from University of Caen/Normandy after which he worked as an analytical/radio-analytical engineer in a company before joining the University of Nantes (1994) where he attained Full Professorship in 2005. He is currently a researcher at Institut des Matériaux Jean Rouxel (IMN) where his research interests focus on materials for electrochemical energy storage, with particular emphasis on innovative and/or modified materials for batteries, electrochemical capacitors, hybrid devices and microdevices. He became an ISE member in 2010 and is also an Associate Editor for the Journal of the Electrochemical Society (since 2012, Batteries and Energy Storage). He has mentored 25 PhD students and with his colleagues he has co-authored 9 book chapters, 170 peer-reviewed journal publications, 9 patents, and 60 invited and keynote lectures at International meetings. He has been the Vice Dean of Innovation for the University of Nantes for 7 years (2013-2020). He also initiated the very popular International Symposium on Enhanced Electrochemical Capacitors (ISEECAP) in 2009 in Nantes which has since taken place every two years in Europe with ISE sponsorship for the meeting as well as an award dedicated to young researchers. Each symposium has resulted in a special issue of *Electrochimica Acta*.

Personal Statement:

In my opinion, Division 3 of ISE is facing two main challenges. The first is societal expectations about new efficient Electrochemical Energy Conversion and Storage devices for mobility, stationary electricity production, devices to be coupled with renewable energy sources, etc. The purpose of ISE and Division 3 is to explain the fundamental role of research in these fields, since academic work is regularly questioned by funding agencies, companies, and moreover our civil society for which technology is often/always the main concern. ISE meetings (general and topical) are by far the most appropriate forum to highlight the importance of electrochemical science. Only the influence of ISE, a world leading electrochemical society, can emphasize the role of fundamental research to build a brighter future. The second concomitant challenge is the place ISE would like to assign to young researchers. Indeed, key players in the different fields of Division 3 are already widely recognized for their ongoing work, but times are getting hard for junior researchers who would like to develop new ideas and concepts. There is no doubt that we have all crossed a pandemic crisis which would impact the future of our students, post-docs and young colleagues. These young men and women who are future assets of our Institutions need helping hands for any endeavour they choose to pursue. My view is to merge all the topics from Division 3 into a new additional symposium dedicated to “new concepts/new views from young researchers”, gathering existing and future topics in an open forum. In parallel, Division 3 needs to motivate and sponsor their participation in future ISE meetings involving this new symposium. Cross-fertilization is the key point to further improve the scientific influence of ISE and committing young researchers from other divisions in such symposium is certainly a major concern for the future of electrochemistry.