



DR. CARLOS EDUARDO FRONTANA VÁZQUEZ
RESUMED CV

CURRENT POSITION: TITULAR RESEARCHER B,
CENTRO DE INVESTIGACIÓN Y DESARROLLO TECNOLÓGICO
EN ELECTROQUÍMICA. PARQUE TECNOLÓGICO QUERÉTARO
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- B. IN SC. CHEMISTRY, FACULTY OF CHEMISTRY, UNIVERSIDAD NACIONAL AUTÓNOMA DE MEXICO. MÉXICO, D.F. 2001
- DOCTOR IN SCIENCES (CHEMISTRY), UNIVERSIDAD AUTÓNOMA METROPOLITANA - UNIDAD IZTAPALAPA, MEXICO, D. F. 2006.
- MEMBER OF THE NATIONAL RESEARCHERS SYSTEM, LEVEL 2 (2008-2023)
- POSTDOCTORAL STAY AT THE DEPARTMENT OF CHEMISTRY OF THE CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS DEL INSTITUTO POLITÉCNICO NACIONAL, MEXICO, (2006 - 2008)

EXPERIENCE AND RESEARCH INTERESTS

I currently work in research lines related to Molecular Electrochemistry (reaction mechanisms, associated to coupled chemical reactions, particularly hydrogen bonding and PCET); i-situ UV-Vis and ESR Spectroelectrochemistry; Weak Interactions in the reactivity of Electrogenated intermediates (hydrogen bonding, π - π stacking); Bioelectrocatalysis; Chemical Analysis in the determination of Antioxidants, Electrogenated Luminescence and Bioelectrochemical Reactors Design.

- **41 published manuscript, all referred in Journal Scitation Reports index, 270 citations by unrelated authors and h-index 12**
- **30 Courses at the Pre and Postgraduate level (Ionics, Non-aqueous Electrochemistry, Electrochemical Techniques, Electrochemical Thermodynamics, Electrochemical Reaction Mechanisms, Manuscript Writing)**
- **14 Tesis Dirigidas (7 B. In Sc., 4 Ms. In Sc. and 3 Ph. D.)**
- **Reviewer of several journals including Electrochimica Acta, Journal of Organic Chemistry, Journal of the American Chemical Society, Nanoscale, RSC Advances, etc.**
- **14 Invited Plenary Lectures Presented**
- **Former Regional Representative of Mexico – International Society of Chemistry 2012-2014 and 2015-2017 (Two terms served).**
- **Vice-chair of Division 6, Molecular Electrochemistry, International Society of Electrochemistry, 2013-2015, 2015-2017.**
- **Member of the Electrochemical Society (President of the Mexico Section)**
- **Member of the International Society of Electrochemistry**
- **Member of the Mexican Chemical Society (Academic Chair Elect 2018-2020)**

Organizer of Scientific Events

1. Coordinator of the Organizing Committee of **New Processes and Materials Based on Electrochemical Concepts at the Microscopic Level (MicroEchem 2013)**, ISE Sponsored Satellite Meeting, La Muralla, Amealco de Bonfil, Queretaro, September 16 – 19, 2013.
2. Coordinator of Symposium 11, “*Molecular Electrochemistry of Novel Organic and Coordination Compounds, Electrosynthesis and Electrocatalysis*”, for the **64th Annual Meeting of the International Society of Electrochemistry**, Santiago de Queretaro, Mexico, September 8 – 13, 2013.
3. Member of the Organizing Committee of the **15th Topical Meeting of the International Society of Electrochemistry**, Niagara Falls, Canada, April 27 – 30, 2014.
4. Coordinator of the Organizing Committee of **First Summer School in Molecular Electrochemistry, (MicroEchem 2014)**, ISE Sponsored Satellite Meeting, La Venta, San Juan del Río, Queretaro, June 29-July 2, 2014.
5. Coordinator of the Organizing Committee of **Second Summer School in Molecular Electrochemistry, (MicroEchem 2014)**, ISE Sponsored Satellite Meeting, La Muralla, Amealco de Bonfil, Queretaro, June 29-July 2, 2015.
6. Coordinator of Symposium 15, “*New Molecules – Synthesis, Fundamental Electron Transfer Properties and their Relationship with Molecular Action*”, for the **67th Annual Meeting of the International Society of Electrochemistry**, Den Haag, Netherlands, August 21-26, 2016.
7. Coordinator of the Organizing Committee of **MicroEchem 2016 – Energy Storage Discussions**, ISE Sponsored Satellite Meeting, La Muralla, Amealco de Bonfil, Queretaro, November 7-9, 2016.
8. Coordinador del Comité Organizador del **2019 ISE Topical Meeting** of the International Society of Electrochemistry en Mérida, Yucatán

Editor and Guest Editor Experience

1. **Guest Editor for the Special Issue of Electrochimica Acta “ELECTROCHEMISTRY FOR A NEW ERA: Selection of Papers from the 64th Annual Meeting of the International Society of Electrochemistry 8-13 September, 2013, Santiago de Queretaro, Mexico”**. Volume 140, September 10th, 2014, ISSN 0013-4686. Elsevier
2. **Guest Editor Procedia Chemistry**. “New Processes and Materials Based on Electrochemical Concepts at the Microscopic Level”, Volume 12, 2014, ISSN 1876-6196. Elsevier.
4. **Guest Editor for the Special Issue of the Journal of the Mexican Chemical Society “MicroEchem 2015-Second Summer School in Molecular Electrochemistry, June 29th - July 2nd, 2015”**. Publication date: May 2016, Sociedad Química de México. ISSN 1870- 249X
5. **Guest Editor for the Special Issue of Electrochimica Acta for the event “MicroEchem 2016th- Electrochemical Energy Storage Discussions, ISE Sponsored Event, November 6th to 9th, 2016”**. Volume 259, ISSN 0013-4686, October 23rd 2017