

Thursday, November 20th	
Time	
8:00	Registration
9:00	Opening ceremony
9:20	<p align="center">Optimizing Silicon Anodes for Li-Ion Batteries</p> <p align="center">Helmut Föll</p> <p align="center">Institute for Materials Science, University of Kiel, Germany</p>
10:10	<p align="center">Controlling lithium-ion insertion behavior in MWCNT@TiO₂ electrodes by composition and heat treatment</p> <p align="center"><u>P. Acevedo-Peña</u>, M. Ramírez and M.E. Rincón</p> <p align="center">Institute of Renewable Energies, UNAM, Mexico</p>
10:30	<p align="center">Pechini synthesis of Na₃V₂(PO₄)₂F₃/C as cathode for ion batteries</p> <p align="center"><u>Lorena L. Garza-Tovar</u> , Nayely Pineda-Aguilar, Luis C. Torres-González</p> <p align="center">Faculty of Chemical Sciences , UANL, Mexico</p>
10:50-13:00	Poster session (see program below) / Equipment exhibition (Keithley, BioLogic)
13:00	<p align="center">Organic Lithium Batteries: the next generation of rechargeable batteries</p> <p align="center">Ignacio González</p> <p align="center">Chemistry and Physics Department, UAM Iztapalapa, Mexico</p>
13:50	<p align="center">SEI formation on Carbon-based electrodes</p> <p align="center">G. Ramos Sánchez^{1,2}, P. Balbuena¹</p> <p align="center">¹Chemical Engineering Department, Texas A&M University, USA ² Chemistry Department of UAM Iztapalapa, Mexico</p>
14:10	<p align="center">Transport phenomena in a liquid metal electrode</p> <p align="center">A. Beltrán</p> <p align="center">Institute for Materials Research, Morelia Campus, UNAM. Michoacan, Mexico</p>
14:30	Lunch break

16:10	<p align="center">Development of electrochemical energy conversion microdevices</p> <p align="center">Luis Gerardo Arriaga</p> <p align="center">Center of Electrochemical Research and Technological Development, Queretaro, Mexico</p>
17:00	<p align="center">Surface Modification of Carbon Materials for Improved Capacitance</p> <p align="center"><u>A. Karina Cuentas-Gallegos</u>, Marino Adán-Benítez, Margarita Miranda-Hernández.</p> <p align="center">Institute for Renewable Energies, UNAM, Temixco, Morelos, Mexico</p>
17:20	<p align="center">Electrochemical synthesis of Co(OH)₂ : Temperature effect and their electrochemical behavior</p> <p align="center"><u>V. Parra-Elizondo</u>, B. Escobar-Morales and D. Pacheco-Catlalán</p> <p align="center">Center of Scientific Research of Yucatan, Yucatan, Mexico</p>
17:40-18:00	Coffee break
18:00	<p align="center">Thermal and thermochemical energy storage in concentrating solar power plants</p> <p align="center">Camilo A. Arancibia Bulnes</p> <p align="center">Institute for Renewable Energies, UNAM, Temixco, Morelos, Mexico</p>
19:00	Gala dinner

Posters	
Polymer electrolytes for lithium ion batteries: synthesis, thermal and electrochemistry properties	
Judith Cardoso ¹ , Dora Nava ¹ , Gregorio Guzmán ¹ , and Ignacio González ²	
¹ Physics Department. DCBI, UAMI, Mexico	
² Chemistry Department. DCBI, UAMI, Mexico	
Study of energy storage in composites C-Ag, C-Chlorophyll, Chlorophyll- Colloidal Silver deposited on cellulose paper	
M.A. Quiroga de la Torre ¹ , M.A. Santana-Rojas ¹ , S.J. Castillo ²	
¹ Technological Institute of Hermosillo, Sonora, Mexico	
² Department of Physics Research, UNISON, Sonora, Mexico	

Energy storage for biomedical applications: the state of the art

G. Herrera-Caballero¹, V. M. Juárez-Flores¹, H. A. Medrano-Martínez¹, A. G. Muñoz-Tlapanco¹, E. E. Nava-Campos¹, M. Ramírez-Nava¹, J. A. Velázquez Juárez¹, M. L. García-Cruz¹, E. Quiroga-González²

¹ Faculty of Electronics, UPAEP. Puebla, Mexico

²Institute for Physics, BUAP. Puebla, Mexico

Morphological and structural characterization of $\text{Li}_4\text{Ti}_{5-x}\text{Fe}_x\text{O}_{12}$ ($x=0, 0.1$ and 0.2)/C electrospun nanofiber mats with potential application such anode in Li-ion batteries

R.A. Hernandez-Carrillo¹, D.I. García-Gutierrez², L. Garza-Tovar¹, E.M. Sanchez-Cervantes¹

¹ Faculty of Chemical Sciences, UANL, Mexico

² Center of Innovation, Research and Development in Technology and Engineering, UANL, Mexico

V_2O_5 -MWCNT and VOPO_4 -MWCNT Composites for lithium-ion battery Cathodes

M. Adán-Benítez, P. Acevedo-Peña, M.E. Rincón and A.K. Cuentas-Gallegos

Institute for Renewable Energies, UNAM, Temixco, Morelos, Mexico

Synthesis of $\text{RE}_{0.5+x-y}\text{Bi}_y\text{Li}_{0.5-3x}\text{TiO}_3$ perovskites (RE=La and Pr).

N. Fernández¹, P. Escribano², E. Cordoncillo², H. Beltrán², M. F. García-Sánchez³, I. C. Romero-Ibarra⁴, N. Masó²

¹Department of Inorganic Chemistry, Faculty of Chemistry, UH, Cuba

²Department of Inorganic and Organic Chemistry, Universitat Jaume I, Castellon, Spain

³Professional Interdisciplinary Unity of Engineering and Advanced Technologies, IPN, Mexico

⁴ UAM, Mexico

Battery anodes composed of Si microwires prepared by a combination of chemical etching techniques

O. Pérez-Díaz, E. Quiroga-González, N. R. Silva-González

Institute for Physics, BUAP, Puebla, Mexico

Electrochemical behavior of carbon electrodes obtained by chlorination of $Zr(C_5H_5)_2Cl_2$ at different reaction times

D.J. Araujo-Pérez¹, P. González-García¹, M.E. Poisot-Vazquez², L. García-González

¹ Center of Research in Micro and Nanotechnology, UV, Veracruz, Mexico

²Institute of Applied Chemistry, UNPA, Oaxaca, Mexico

Development of electrochemical capacitors from water lily (*Eichhornia crassipes*)

I.L. Andrade-Martínez¹, M.E. Poisot-Vázquez², P.G. González, L. García-González, T. Hernández-Quiroz²

¹ Center of Research in Micro and Nanotechnology, UV, Veracruz, Mexico

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Behavior analysis in heliostat's spot for fault detection

J. Pacheco¹, B. Al Baalbaki¹, V. Benitez², C. Iriarte²

¹ Electrical and Computer Engineering Department, The University of Arizona, USA

² Industrial Engineering Department, UNISON, Mexico

Friday, November 21st	
Time	
9:00	<p align="center">Investigation of Li-ion battery using X-ray microscopy at nano-/meso- scales</p> <p align="center">Yijin Liu</p> <p align="center">Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory, Menlo Park, CA, USA</p>
9:50	<p align="center">Nanostructure and electrochemical behavior of molybdenum carbide derived carbons</p> <p align="center">P.G. González¹, E. Urones-Garrote², D. Ávila-Brandé³, L.C. Otero-Díaz³</p> <p align="center">¹Center of Research in Micro and Nanotechnology, UV, Veracruz, Mexico ²Inorganic Chemistry Department Universidad Complutense, Madrid, Spain ³National Center of Electronic Microscopy, Universidad Complutense, Spain</p>
10:10	<p align="center">Optimal charging conditions for top performance of silicon microwire anodes</p> <p align="center">Enrique Quiroga-González</p> <p align="center">Institute for Physics, BUAP, Puebla, Mexico</p>
10:30-11:00	Coffee break
11:00	Round table
12:30	Closing ceremony
13:00	Tours in the city may be offered