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EDUCACIÓN

1999-2002	PhD. Ingeniería Mecánica (Hidrógeno y celdas de combustible)	University of Victoria Canadá
1993-1996	MASc. Ingeniería Mecánica (Gas natural criogénico)	University of Victoria Canadá
1989-1993	BSc. Física y Química (Física de superficies)	Trent University Canada
1987-1989	Bachillerato Internacional (Física, Economía, Matemática)	United World College (Adriatic) Italia

EXPERIENCIA PROFESIONAL

2002-presente	Prof. Asociado¹/Miembro Asociado²	Investigador Institute for Fuel Cell Innovation National Research Council, Canadá
	¹ Ingeniería Mecánica, UBC ² Ingeniería Química y Biológica, UBC	
2010-2011	Profesor Invitado Fraunhofer Institut für Solare Energiesysteme, Alemania	
2000-2005	Consultor Industrial BC Transit (Efectos de la contaminación ambiental sobre la salud) Angstrom Power Corporation (Celdas de combustible portátiles) QuestAir Technologies (Membranas para enriquecimiento de oxígeno) Hydrogenics Test Systems (Sistemas de prueba para celdas de combustible)	
1999-2000	Miembro del Consejo Directivo (Tecnología) General Hydrogen Corporation (adquirida por PlugPower Canada) Propiedad intelectual, desarrollo de negocios, financiamiento privado	
1993-1996	Gerente de Proyecto Institute for Integrated Energy Systems (Canadá)	

RECONOCIMIENTOS

2002-2012	Discovery Grant (National Science and Engineering Council)
2011-2013	Grant on In situ fuel cell diagnostics (National Science and Engineering Council)
2003	Research Grant on Fuel Cell Testing (Canadian Foundation for Innovation)
2002	Research Fellowship in Fuel Cell Research (BC Advanced Systems Institute)
2000	G.R.E.A.T. Scholarship (Science Council of British Columbia)
1998	Graduate Scholarship (BC Advanced Systems Institute)
1989-1993	The Trent University Scholarship (Canadian International Development Agency)
1987-1989	UWC of the Adriatic Scholarship (United World Colleges/Guatemalan Scholarship Assoc.)

PUBLICACIONES

ARTÍCULOS (2009-2012)

- O. Herrera, D. Wilkinson, W. Mérida. "Electrode overpotentials and temperature profiles in a PEMFC." *Journal of Power Sources*. 198, 132-142 (2012).
- C. Guzmán, A. Alvarez, O.E. Herrera, R. Nava, J. Ledesma-García, Luis A. Godínez, L.G. Arriaga, W. Mérida. "Water Transport in Composite Membranes Containing Silica: Temperature and Relative Humidity Effects." *International Journal of Electrochemical Science* 6, 4648 - 4666 (2011).
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- R. Alink, D. Gerteisen, W. Mérida, "Investigating the Water Transport in Porous Media for PEMFCs by Liquid Water Visualization in ESEM." *Fuel Cells* (2011).*
- D. Gerteisen, W. Mérida, T. Kurz, P. Lupotto, M. Schwager, and C. Hebling, Spatially Resolved Voltage, Current and Electrochemical Impedance Spectroscopy Measurements. *Fuel Cells*. (2011).*
- M. Adachi, T. Romero, T. Navessin, Z. Xie, Z. Shi, W. Mérida, and S. Holdcroft, "Water Permeation Through Catalyst-Coated Membranes." *Electrochemical and Solid-State Letters*, 13(6) B51-B54 (2010).
- D. Kadylak and W. Mérida. "Experimental verification of a membrane humidifier model based on the effectiveness method." *Journal of Power Sources*, 195, 3166-3175 (2010).
- T. Romero and W. Mérida. "Water transport in liquid and vapour equilibrated Nafion™ membranes." *Journal of Membrane Science*, 338, 135-144 (2009).
- J.M. Le Canut, R. Latham, W. Mérida, D. A. Harrington. "Impedance study of membrane dehydration and compression in PEM fuel cells." *Journal of Power Sources*, 192(2), 457-466 (2009).
- S. Zhang, X. Yuan, H. Wang, W. Mérida, H. Zhu, J. Shen, S. Wu, J. Zhang. "A review of accelerated stress tests of MEA durability in PEM fuel cells." *International Journal of Hydrogen Energy* 34, 384-404 (2009).
- O.E. Herrera, W. Mérida, and D.P. Wilkinson. "Sensing Electrodes for Failure Diagnostics in Fuel Cells." *Journal of Power Sources* 190, 103-109 (2009).

PATENTES

- O. Herrera, W. Mérida and D.P. Wilkinson, "Reference Electrode for Fuel Cell Failure Diagnosis." Provisional patent application UBC's UILO File #08-062 (in progress)
- D.A. Harrington and W. Mérida, "Methods and Apparatus For Indicating a Fault Condition in Fuel Cells and Fuel Cell Components." US Patent Application 20040091759. Assignee: Hydrogenics Test Systems (2004).
- W. Mérida, "Apparatus for integrated water deionization, electrolytic hydrogen production, and electrochemical power generation," US Patent 6,569,298 Assignee: General Hydrogen Corporation, Richmond, B.C., Canada (2003).
- Z. Dong, K.W. Kratschmar, D. Lu, M.E. Pastula, G.G. Wang, R. Zheng, W. Mérida, R. Mackie and M. Perry, "Oxidant flow field for solid polymer electrolyte fuel cell" US Patent 6,663,997. Assignee: Ballard Power Systems, Burnaby, B.C., Canada (2003).
- G. McLean, N. Djilali, C.E. Reid, J. Lindstrom, W. Mérida, "Corrugated flow field plate assembly for a fuel cell," US Patent 6,544,681. Assignee: Ballard Power Systems, Burnaby, B.C., Canada (2003).
- M. Routtenberg and W. Mérida, "Hydrogen/Electric Energy Distribution System" U.S. Provisional Patent Application Serial Number 60/159,023 (filed on October 12, 1999). Assignee: General Hydrogen Corporation, Richmond, B.C., Canada.
- G. McLean G. and W. Mérida, "Internal Support Structure for and Undulate Membrane Electrode Assembly in an Electrochemical Fuel Cell." International Patent No. WO002269A2. Assignee: Ballard Power Systems, Burnaby, B.C., Canada (2000).
- G. McLean and W. Mérida, "Electrochemical Fuel Cell having a Membrane Electrode Assembly formed in-situ and Methods of Forming Same." International Patent No. WO002273A2. Assignee: Ballard Power Systems, Burnaby, B.C., Canada (2000).
- W. Mérida and J.A. Barclay, "Thermal Regenerators and Fabrication Methods for Thermal Regenerators," International Patent No. WO9828585A1. Assignee: Innovation and Development Corporation, University of Victoria, Victoria, B.C., Canada (1998).

CONFERENCES

- R. Huizing, W. Mérida, F. Ko. "Selective nano-fibrous membranes for water vapour transport applications." International Conference on Membranes and Membrane Processes (ICOM 2011). Amsterdam, the Netherlands (July 23-29, 2011).
- D. Gerteisen, A. Spadinger, M. Schwager, W. Mérida, C. Hebling. "Spatially resolved analysis of water transport mechanisms." European Fuel Cell Forum, Lucerne, Switzerland (June 28 - July 1, 2011).
- R. Alink, W. Mérida, D. Gerteisen, "Modeling 2-phase water transport in gas diffusion layers." Canadian Hydrogen & Fuel Cells Conference. Vancouver, B.C., (May 15-18, 2011.)
- D. Gerteisen, W. Mérida, T. Kurz, M. Schwager, A. Spadinger, R. Alink, C. Hebling. "Voltage, current and electrochemical impedance spectroscopy measurements on a 7 x 7 segmented fuel cell." Canadian Hydrogen & Fuel Cells Conference. Vancouver, B.C., (May 15-18, 2011.)
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- D. Gerteisen, A. Spadinger, M. Schwager, W. Mérida, C. Hebling. "Spatially resolved analysis of water transport mechanisms." European Fuel Cell Forum, Lucerne, Switzerland (June 28 - July 1, 2011)

REPORTES

- W., Mérida, *Cleaner Passage: Benefits of Low Emission Public Transit, Chapter 3 in PATH TO PURCHASE: Moving to Fuel Cell Bus Fleets*. BC Transit. Vancouver, (2005).
- W., Mérida, *Operating Conditions for PEM Fuel Cell Operation*, Angstrom Power Corporation. Vancouver, (2003). CONFIDENTIAL
- J-M Le Canut, W. Mérida and D. Harrington, *Research and Development of a Fuel Cell Diagnostic Product*. Victoria, Canada: Hydrogenics Test Systems and IRAP, (2002). CONFIDENTIAL
- Mérida, W., "Fuel Cell Bus Deployment: Emissions Reduction and other Benefits," Trade & Investments Office, Victoria, BC, Canada. Victoria, BC, Canada: Trade & Investments Office (November 7, 1998).

Full publications list online

<http://merida.mech.ubc.ca>