

Luisa Amelia Dempere



Interests & Expertise:

- Materials Characterization and Analysis
- Large-scale Microanalysis of Structural Materials
- Reverse Engineering
- Green Materials and Sustainability
- Scanning Electron Microscopy
- Electron Probe Microanalysis

Selected Publications:

- Kerstein, W., Ten, E., **Dempere, L.** and Vermerris, W. "Closing-Loops Producing Added-Value Products as a Cost-Reduction Strategy in the Operation of Biorefineries", *Microscopy and Microanalysis*, 21 Supplement 3 (2015) pp 311-312.
- R.A. Deist, B.J. Willenberg, and **L.A. Dempere**, "Inexpensive & Non-Disruptive Retrofitting of a PDP-11 Based Microprobe System with Modern Automation Software", *Microscopy and Microanalysis* 2013, v19, Supp. S2, 2013 pp. 810-811.
- Q. Cheng, Z. Tong, **L. Dempere**, L. O. Ingram, L. Wang, J. Y. Zhu, "Disk Refining and Ultrasonication Treated Sugarcane Bagasse Residues for Poly(Vinyl Alcohol) Bio-composites", *Journal of Polymers and the Environment*, v21, Issue 3, 2013, pp 648-657.
- B. Willenberg, R. Deist, and **L. Dempere**, "Old Dogs and New Tricks: Adapting Existing Analytical E-Beam Equipment for Automated Large-Area Quantitative Elemental Mapping of Chlorine in Cement, Mortar and Concrete", *Microscopy and Microanalysis*, July 2011 17: pp. 1476-1477
- **Dempere, L.A.** "Understanding Sustainability through Reverse Engineering", *IEEE Technology and Society Magazine*, Volume 29, Issue 3, (2010) 37-44.

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Professional Activities:

- Microscopy Society of America (MSA)
 - ✓ Physical Sciences Director
- Microanalysis Society (MAS)
- American Vacuum Society (AVS & FLAVS)
- Southeastern Electron Microscopy Society (SEMS)
 - ✓ President 2016-2017
- Society of Women Engineers (SWE)
- EPEAT Advisory Council – Green Electronics Council (2012-2014)
- Brookhaven National Laboratory - Center for Functional Nanomaterials – Proposals Reviewer (2013-2015)
- Journal of Materials Science and Nanotechnology – Editorial Board

Current CV available upon request.