**Jandro L. Abot**

Associate Professor

Department: Mechanical Engineering

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Education: Ph.D., Theoretical and Applied Mechanics, Northwestern University, 2000

**Research Interests and Expertise:**

carbon nanotube fibers, integrated sensing, smart materials, structural health monitoring, composite materials, nanocomposites, experimental mechanics, thermomechanical characterization.

**Biography:**

Jandro L. Abot is an Associate Professor of Mechanical Engineering and the Director of the Intelligent Materials Laboratory at the School of Engineering of Catholic University. He was previously an Assistant Professor in the Department of Aerospace Engineering and Engineering Mechanics at the University of Cincinnati. Prior, he was a Post-Doctoral Fellow at Northwestern University. He is the author or co-author of more than one hundred and forty technical papers. He is the recipient of several research awards from the National Aeronautics and Space Administration, the United States Department of State, Petrobras and the Air Force Office of Scientific Research. He has served as the main advisor of more than fifty doctoral and masters’ students, taught more than twenty-five different engineering courses, and advised hundreds of mechanical or aerospace engineering undergraduate students.

**Five Selected Papers:**

1. Rodríguez-Uicab, O., Tayyarian, T. and Abot, J. L. Effect of curing temperature of epoxy matrix on the electrical response of carbon nanotube yarn monofilament composites. J. Compos. Sci. 6, 43 (2022).
2. Pirmoz, A., Abot, J. L. and Avilés, F. Simulation of mechanical response of carbon nanotube yarns under uniaxial tensile loading. Mech. Mater. 165, 104144 (2022).
3. Rodríguez-Uicab, O., Abot, J. L and Avilés, F. Electrical resistance sensing of epoxy curing using an embedded carbon nanotube yarn. *Sensors* 20, 3230 (2020).
4. Balam, A., Cen-Puc, M., Rodríguez-Uicab, O., Abot, J. L. and Avilés, F. Cyclic thermoresistivity of freestanding carbon nanotube yarns and yarns embedded into a polymer. *Adv. Eng. Mater.* 2000220 (2020).
5. Balam, A., Cen-Puc, M., May-Pat, A., Abot, J. L. and Avilés, F. Influence of polymer matrix on sensing capabilities of carbon nanotube polymeric thermistors. *Smart Mater. Struct.* 29: 015012 (2020).

**Professional Activities**

* Associate Editor of Journal of Carbon Research.
* Advisory Board member of Sci and Encyclopedia (MDPI).
* Editorial Board member of Sensors, Journal of Composites Science, Functional Composites and Structures.
* Guest Editor of Special Issues: Structural Health Monitoring Using Carbon Nanotube Yarn-Based Sensors (Sensors); Integrated Structural Health Monitoring in Polymeric Composites (Sensors); Carbon-Based Sensors (Journal of Carbon Research); Novel Sensing Techniques and Approaches in Composite Materials (Journal of Multifunctional Composites).
* Active member of the American Society for Composites, the American Society of Mechanical Engineers, and the American Society for Engineering Education.
* Reviewed manuscripts for more than sixty international journals.
* Active participant in engineering recruitment, inclusion, and international programs at Catholic University.