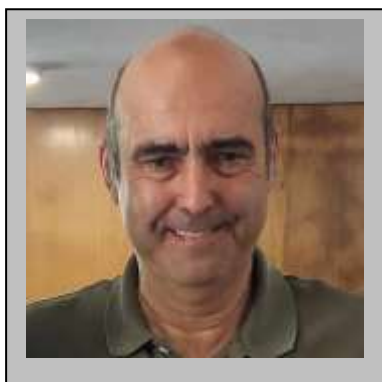


May 5th, 2026 – 14:00-15:00 PM

Location: Room 217D

Applications of Electron Microscopy in Materials Characterization (SEM, TEM, FIB)



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In this seminar, Dr. Rodríguez-González will present examples of the application of electron microscopy — including HRTEM, SEM, and FIB — for materials characterization. The first part introduces fundamental concepts for understanding advanced characterization using electron microscopy and the preparation of complex samples. The second part focuses on published real-world applications in nanoparticles, electronic devices, natural products, nanoparticle growth mechanisms, and the determination of their structure and shape.

Short Bio

Dr. José Benito Rodríguez González is the Director of the Research Support Centers at the University of Vigo, where he completed his PhD on the optical and structural characterization of complex metallic nanoparticles. He has carried out research stays at the University of Southampton and at the Laboratoire de Physique des Solides (LPS), Paris-Orsay. He was also involved in the start-up of the electron microscopy facilities at INL in Braga, Portugal. Dr. Rodríguez-González is co-author of numerous research papers on high-resolution transmission electron microscopy, scanning electron microscopy, and focused ion beam techniques.

Webinar Host

Dr. Javier Fernández-Lodeiro & Dr. Hugo Miguel Santos

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