

Peak-fitting analysis of XPS data using the XPSOasis platform

Alberto Herrera-Gómez
CINVESTAV-Querétaro

Peak-fitting X-ray photoelectron spectra requires, in many cases, a considerable amount of experience. However, it is possible to learn the basic tools in a very fast and fun way by using the XPSOasis platform (<https://xps Oasis.org/>). Bring your data, share it with the rest of the attendees, and find out the most common errors that XPS users make. Make sure to previously register in XPSOasis and download AAnalyzer®, the most advanced and accessible fitting software. Also, bring your questions about fitting and the principles of XPS. You might want to attend the talk about XPSOasis that will take place on Monday. . Last but not least, please bring your computer. Last but not least, please bring your computer.



ALBERTO HERRERA-GOMEZ is a Professor of Materials Science at CINVESTAV-Queretaro, Mexico. He obtained his Ph.D. in applied physics from Stanford University in 1994. He is currently the Chairman of the ASTM-E42 Committee on Surface Chemical Analysis and a Trustee at the American Vacuum Society. Alberto spent two sabbaticals (2005-2007) at the University of Texas at Dallas as a Visiting Associate Professor, and one sabbatical at the Universidad Autonoma Metropolitana in Mexico City (2012) where he was granted the Daniel Schechtman Chair. Alberto was named Fellow of the AVS in 2016 “for his seminal contributions to developing quantitative surface analysis, especially for XPS.” In 2019, he received the “Francisco Espinoza” award from the Mexican Vacuum Society for “his pioneering contributions to XPS and for the formation of an XPS school in Mexico.” He received the Mexican National Award in Food Science in 2000 for work related to the analysis of infrared data allowing for the discrimination of free and bound water on hydrophilic materials. His primary research involves the structure, mass transport, and thermal stability of nanoscale films, and the development of quantitative analytical methods for optimizing the quality and quantity of information extracted from XPS spectra. He is now engaged in synchrotron studies about the background signal in XPS data. Alberto has published more than 100 papers in refereed international journals and directed the thesis work of 26 graduate students. He was elected AVS-ASSD Member-at-Large from 2008 to 2011. He also served as President of the Mexican Vacuum Society, 2002-2004. Dr. Herrera-Gomez He was elected Secretary of the IUVSTA-Applied Surface Science Division in 2010 and has represented VAMAS in Mexico since 2010.

