



Professor Miguel José Yacaman, Regents Professor and Chair of the Applied Physics and Materials Science Department at the University of Northern Arizona, originally from Veracruz, Mexico, obtained his B. S., M.Sc., and Ph.D. at the Universidad Nacional Autónoma de Mexico (UNAM), later holding multiple research positions at laboratories around the world. He has decades of scientific contributions in the field of Physics, Materials Science, Nanotechnology, and Biology. His focus centers on the development of electron microscopy methods to study nanoparticles, 2D materials and the correlation of structure-physical properties. Prof. Yacaman is an internationally recognized scholar and obtained the designation of MSA Fellow in 2015. He is also a Fellow of the American Physical Society, Materials Research Society, and the American Association for the Advancement of Science (AAAS). With over 500 publications and 100 graduated doctoral and master students, Prof. Yacaman is a respected mentor and university teacher that enjoys, and continues to teach, a spectrum of classes. As recognition for his teaching and mentoring of minority science students, he received the Distinguished Scientist Award from the Society for Advancement of Chicanos/Hispanics and Native Americans in Science. (*Credit: <https://mira.nau.edu/miguel-jose-yacaman/>*)



Professor Raúl Padrón, currently at the University of Massachusetts Medical School, was born and raised in Caracas, Venezuela, where he completed his undergraduate studies in Electrical Engineering, received a Master's degree in Biology and summa cum laude Ph.D. in Biophysics and Physiology. After his postdoctoral studies at the University of Cambridge, he founded the Center for Structural Biology. Over the past four decades, Prof. Padrón has been recognized for his work on the structure and function of myosin thick filaments of skeletal, cardiac, and smooth muscles. He is known in particular for his cryo-EM studies of the near atomic structure and function of the myosin interacting-head motif (IHM) and their implications on how muscle thick filaments relax or become activated, aiming to understand the consequences on molecular pathogenesis or mutations of human muscle diseases. Prof. Padrón is an elected international member of the National Academy of Science, an elected member of the Latin American Academy of Science (ACAL) and the World Academy of Science (TWAS). (*Credit: <https://www.umassmed.edu/padron-craig/>*)



Professor Fernando Ponce is a Professor in the Department of Physics and Senior Global Futures Scientist in the Julie Ann Wrigley Global Futures Laboratory at Arizona State University. After graduating with a B.S. in Physics from the National University of Engineering in Lima, Peru, Professor Ponce went to get his MSc. in Solid State Physics at the University of Maryland and his Ph.D. in Materials Science and Engineering at Stanford University. Professor Ponce's major contribution to science has been in the physics of semiconductor materials, in particular light emitting devices and laser diodes. He has contributed to growth and characterization of photovoltaic materials to the development of materials for optoelectronic applications and of high-resolution transmission electron microscopy. He has co-authored more than 200 papers and 8 patents; and has co-edited nine books. He has been involved in promoting science in Latin America, where he has participated in the organization of several international meetings. His current interest is in the understanding of the materials properties of III-V

nitrides, and their correlation to growth and device performance for solid-state lighting. He is a fellow of the American Physical Society. (Credit: <https://sustainability-innovation.asu.edu/person/fernando-ponce/>)

Professor Eva Nogales is a Hughes Medical Institute investigator, Professor of Biochemistry and Molecular Biology at the University of California, Berkeley, and Senior Faculty Scientist at the Lawrence



Berkeley National Laboratory. Professor Nogales, originally from Madrid Spain, obtained her B.S. in Physics at the Autonomous University of Madrid and her Ph.D. from the University of Keele. Her research is dedicated to the visualization of the architecture, functional state, and regulatory interactions of macromolecular assemblies using cryo-EM. Professor Nogales obtained the Burton Award by MSA (2000), and was elected member of the National Academy (2015) of Science and the American Academy of Arts and Sciences (2016). She is also a Fellow of the American Society for Cell Biology (2017), Biophysical Society Fellow (2020), and most recently an AAAS Fellow (2021). (Credit: <https://cryoem.berkeley.edu/people/eva-nogales/>)



Professor Arturo Ponce from the Department of Physics and Astronomy at the University of Texas at San Antonio (UTSA) obtained his Ph.D. in Materials Science and Engineering at the Universidad de Cádiz in Spain in 2003, where he worked on the study of dislocations of nitride semiconductors using high-resolution electron microscopy. Later, he worked on the first commercial prototype of the precession electron diffraction (PED) unit with Nanomegas in Belgium. From 2004 to 2011, Dr. Ponce worked as a researcher at the Institute of Physics of the National University of Mexico (UNAM) and the Center of Applied Chemistry (CIQA). At CIQA, he was the head of the microscopy laboratory. In early 2011, Dr. Ponce moved to UTSA as the Director of the Kleberg Advanced Microscopy Center (KAMC) and became assistant professor in 2013. Currently Dr. Ponce is Professor and Assistant Department Chair, working on the study of structural and physical properties of nanomaterial structures using electron holography, aberration-correction, PED and in-situ TEM. He has been advising dozens of undergraduate and graduate students, with a vast majority of students being Hispanic Americans who later join the semiconductor industry in the South Texas region. He also has a strong international collaboration with universities from Mexico, Chile, Argentina, and Colombia, hosting and mentoring graduate and undergraduate students from those universities. Dr. Ponce is member of MSA, the Board of Directors of the Mexican Microscopy Society, and is an inductee into the Mexican Academy of Sciences. (Credit: <https://poncepedraza.wordpress.com/people/>)



Professor Juan Carlos Idrobo, born and raised in Ecuador, started his Physics career at the National Politechnic School (EPN). He graduated with a B.S. in Physics from Universidad de Los Andes, Colombia and later obtained his M.Sc. and Ph.D. in Physics from University of Illinois at Chicago and University of California, Davis. He recently joined the Materials Science & Engineering Department at the University of Washington as an Associate Professor, after spending 11 years at Oak Ridge

National Laboratory as Senior Staff Scientist, and later as a Scanning Transmission Electron Microscopy Group Leader at the Center for Nanophase Materials Sciences. His research consists of applying analytical techniques in electron spectroscopy within mono-chromated and aberration-corrected scanning transmission electron microscopy to study the structure, electronic, magnetic, thermal, optical and topological properties of materials. He holds multiple awards that include the 2017 and 2020 Innovation Award from Microscopy Today, the 2019 Team Award for Research Accomplishment in the Science and Technology Category, UT-Battelle Awards Night, ORNL, and the 2018 Clarivate Analytics Highly Cited Researcher. (Credit: <https://mse.washington.edu/facultyfinder/juan-carlos-idrobo>)



Professor Claudia López is the director of the Multiscale Microscopy Core and research associate professor in the Biomedical Engineering Department at Oregon Health and Science University. Professor López has extensive experience with electron microscopy research including Transmission Electron Microscopy, Scanning Electron Microscopy, Dual-Beam applications and Serial Block Face Imaging. Her formal training is in biochemistry, biophysics and molecular biology, and she has worked in the biochemistry-biophysics and microbiology fields for the past 22 years. Her expertise includes the analysis of both biological (cells, viruses, bacteria, particles and tissues) and non-biological materials (hard materials and fabrics) using electron microscopy. As part of her research interests Professor López is developing correlative light and electron microscopy techniques for cultured cells and tissues, both for 2D and 3D electron microscopy. Prof. Lopez is originally from Argentina and did her M.Sc. and Ph.D. in Biochemistry and Molecular Biology at the University of Buenos Aires. (Credit: <https://www.ohsu.edu/people/claudia-s-lopez-phd>)