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**Bio:** Dr. Herr serves as professor and founding Chair of the UNC Greensboro's Nanoscience department in the Joint School of Nanoscience and Engineering (JSNN). His collaborative and transdisciplinary team that explores strategic, convergent, and high impact opportunities that will benefit society. Current research interests include kinetics of functional nanomaterial growth, biomimetic self-assembly, and sustainable food security. Prior to joining the UNC Greensboro, Dr. Herr served as Semiconductor Research Corporation's Director of Nanomanufacturing Sciences and a contributing member of the SRC team that won the 2005 National Medal of technology. He is credited with authoring/co-authoring twenty-nine inventions; fifty-four articles and eleven books; and more than two-hundred eighty invited talks and media presentations. Professor Herr serves as Fellow of the International Society for Optics and Photonics (SPIE), North American Regional Editor for the Springer/Nature Journal of Nanoparticle Research, Senior Editor for IEEE's Transactions in Nanotechnology, and Member of Berkshire Corporation's Board of Directors. He also co-founded/co-chaired the International Technology Roadmap for Semiconductor's (ITRS) Emerging Research Materials (ERM) International Technology Working group (ITWG).