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Bio: Mark Tuominen is a Professor of Physics at UMass Amherst, where he performs research in experimental condensed matter physics and nanotechnology. His work helps to advance the science and applications of nanoscale charge transport, magnetism, bioelectronics, superconductivity, self-assembly, and nanomanufacturing. He was instrumental in establishing the NSF Center for Hierarchical Manufacturing and the National Nanomanufacturing Network. Dr. Tuominen's educational innovations are in the areas of experiential learning and professional development. He is a Fellow of the American Physical Society and served as a member of the National Academy of Sciences Quadrennial Review of the National Nanotechnology Initiative. He received a bachelor's in chemical engineering and a PhD in physics from the University of Minnesota, and was a postdoctoral research associate at Harvard University.