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**BIOGRAPHY:** Prof. Banerjee is a Fellow of ASME and the Dean's Fellow of EnMED (the Inter-Collegiate School of Engineering Medicine). He is currently serving an Associate Editor (AE) of the ASME Transactions Journal of Heat Transfer and ASME Journal of Energy Resources Technology. In the recent past, he has served as an AE and multiple times as Guest Editor (Special Issue) for the ASME Journal of Nanotechnology in Engineering & Medicine. He received his Ph.D. in Mechanical Engineering (with minor in MEMS) from the University of California, Los Angeles (UCLA), and the Bachelor of Technology (Honors) in Mechanical Engineering from the Indian Institute of Technology (IIT-Kharagpur). He supervised research of 32 undergraduates (3 honors thesis) and 41 graduate students (18 PhD and 23 MS), yielding more than 180 archival publications. He received 17 US patents from his prior research work at Applied Biosystems Inc./ ABI (Life Technologies, CA), NanoInk Inc., CIPHERGEN Biosystems Inc., Coventor Inc., Tata (India) and TAMU. He was selected for "ASEE Summer Faculty Fellowship ('06, '07, '09)" at AFRL (Dayton, OH) and at Space & Naval Warfare Center/ SPAWAR-SSC (San Diego, CA).