

AMY E. HERR, PH.D.

PROFESSOR OF BIOENGINEERING | UNIVERSITY OF CALIFORNIA, BERKELEY

Amy E. Herr received a BS degree in Engineering & Applied Science from the California Institute of Technology and MS and PhD degrees in Mechanical Engineering from Stanford University, where she was an NSF Graduate Research Fellow. She is currently Professor of Bioengineering at the University of California, Berkeley and a Chan Zuckerberg Biohub Investigator. Until 2020, she held a 5-year appointment as the Lester John & Lynne Dewar Lloyd Distinguished Professor. Prior to joining UC Berkeley, she was a staff member in the Biosystems Research Group at Sandia National Laboratories (Livermore, CA). Her research interests include bioinstrumentation innovation to advance quantitation in the biosciences & biomedicine, in particular the study and application of electrokinetic phenomena in single-cell and sub-cellular analyses. Her pedagogical interests are in bioengineering design and transport.

Professor Herr is an elected Fellow of the American Institute of Medical and Biological Engineering (AIMBE) and an elected member of the National Academy of Inventors (2017). She serves on the National Advisory Board for Biomedical Imaging and Bioengineering at NIH (NIBIB; 2020-23) and for the US Defense Advanced Research Projects Agency (DARPA) Biotechnology Office (BTO; 2020-23). She has served as a standing member of the NIH *Nanotechnology* Study Section (2013-2019) and was one of 13 US faculty appointed to the DARPA's Defense Sciences Study Group (DSSG; 2018-2019).

Professor Herr is Vice President of the Board of the Chemical & Biological Microsystems Society (CBMS; which oversees the microTAS conferences), and has served as Co-Chair of the 2020 EMBL Microfluidics Conference, Co-Chair of the 2021 International Conference on Miniaturized Systems for Chemistry & Life Sciences (microTAS), and Chaired (2009) and Vice-chaired (2007) the Gordon Research Conference (GRC) on the *Physics & Chemistry of Microfluidics*. Professor Herr was Co-Director of the Cold Spring Harbor Laboratory's *Single Cell Analysis* summer course (2015, 2016), and is an Instructor in that course (2015-2021). At UC Berkeley, she serves as Faculty Director of both the Bakar Fellows Program (2016-present) and the Bakar Bio*Enginuity* Hub for the Vice Chancellor for Research. She was the Department of Bioengineering's Vice-Chair for Engineering Engagement (2016-2020).

She has been recognized as a: *Sciex Microscale Separations Innovation Medalist* (2018), *Visionary Awardee* by the City of Berkeley (2017; one of three), Chan Zuckerberg Biohub Investigator (2017-2022), 2016 *Mid-Career Achievement Award* from the American Electrophoresis Society (AES), 2015 *Georges Guiochon Faculty Fellow* from HPLC (inaugural), 2012 *Young Innovator Award* from *Analytical Chemistry/CBMS*, 2011 NSF CAREER award, 2010 NIH New Innovator Award, 2010 *Alfred P. Sloan Research Fellowship in chemistry*, 2010 *New Investigator Award in Analytical Chemistry* from Eli Lilly & Co., 2009 Defense Advanced Research Projects Agency (DARPA) *Young Faculty Award*, 2009 *Hellman Family Faculty Fund Award* from UC Berkeley, 2008 *Regents' Junior Faculty Fellowship* from the University of California, and held the Mary Shepard B. Upson Visiting Professorship at Cornell University. To support the international technical community, she actively serves on the technical organizing committees of international conferences and created the *Women in Microfluidics* list to aid other conference organizers in highlighting stellar female researchers from around the globe (microfluidics.berkeley.edu).

In teaching and mentoring, Professor Herr has been honored as the 2019 *Outstanding Postdoctoral Advisor Award* from UC Berkeley, the 2012 *Ellen Weaver Award* from the Association for Women in Science (AWIS), the 2012 *Outstanding Instructor Award in Bioengineering* (Bioengineering Honor Society student vote) and a 2007 *Outstanding Mentor Award* from Sandia National Laboratories. She is faculty advisor to the UC Berkeley chapter of the Society of Women Engineers (SWE) and the Graduate Women in Engineering (GWE), as well as assisted with establishing the UC Berkeley chapter of the National Science Policy Group (NSPG).