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## VISION STATEMENT

My vision as a potential member of the EMI Board of Governors (BoG) is to contribute in an active manner to serving the needs of the worldwide engineering community with respect to research, application, and education in a broad sense. I plan to support with particular emphasis the professional growth of our new generation of engineers and other professionals involved in both established and emerging areas of Engineering Mechanics. I fully embrace the vision to promote "an interdisciplinary forum for researchers, practicing engineers, industry representatives, citizen groups, public officials and others" and I will work with the other BoG officers to increase the interaction between academia and industry within the EMI and its activities. I believe that a stronger interaction between the Engineering Mechanics research and industry communities would be highly beneficial to advance the EMI's mission; thus, I plan to work hard to facilitate new effective collaborations between these two communities. To the best of my abilities, I will promote the highest level of transparency and engagement between the BoG and EMI membership.

I have been an active member of ASCE and EMI/EMD since 2007, going from student to associate to full member. I am a Charter Member and a Fellow of EMI. I serve as an Editorial Board member of the Journal of Composites for Construction, and as an associate editor of the Journal of Risk and Uncertainty in Engineering Systems (Part A and Part B), Natural Hazards Review, and the Journal of Architectural Engineering. I have also been a guest editor for three years of the annual special collection of papers written by the finalists of the EMI student paper competitions, which is published in the Journal of Engineering Mechanics. I have continuously attended and contributed research papers to the annual EMI conferences since I was a graduate student. I have organized and/or chaired numerous special sessions and minisymposia for several EMI conferences, as well as for numerous other conferences co-sponsored by EMI.

I am an active member of the EMI Probabilistic Methods Committee, and past-chair of the EMI Dynamics Committee. During my term as chair of the EMI Dynamics Committee, I established a control group of young, very active, and dedicated leaders (Drs. Eleni Chatzi and Hamed Ebrahimian). With their help, we developed a new webpage to disseminate the Committee's annual activities, and we wrote the first version of the EMI Dynamics Committee Operation Manual to document and formalize the procedures and activities of the Committee. I have also chaired the EMI Dynamics Student Paper competition for EMI 2018. In November 2018, I was appointed as a member of the EMI Task Committee for Strategic Planning and I was invited to the 2019 ASCE Multi-Region Leadership Conferences for leadership training and orientation of incoming Section and Branch leaders. In 2020, I was elected as a member of the BoG, for which I am serving my first term, ending in September 2023. I have served as BoG liaison for the Fluid Dynamics Committee, the Stability Committee, the Task Committee on Updating the EMI Strategic Plan, and the Task Committee on Updating the EMI Operations Manual. I am also serving as the EMI Treasurer since 2021. If elected for another term as member of the EMI BoG, I will work with the other BoG members to introduce term limits, clarify conflicts of interest rules, and increase the engagement of the different stakeholders in the decisions affecting the future of EMI. I will aim to further increase the

benefits of EMI membership and EMI committee membership for all engineers, researchers, and scientists involved with EMI, with particular attention to younger members and student members.

I believe my continuous service to EMI and ASCE for more than 16 years demonstrate my dedication and my appreciation for the EMI. I am enthusiastically looking forward to continuing my association with EMI, and I would welcome the opportunity to continue my service to the EMI's mission and advance its vision in partnership with the other BoG members.

## SHORT BIO

Dr. Michele Barbato is a Professor in the Department of Civil and Environmental Engineering (CEE) at the University of California, Davis (UCD), co-director and co-founder of the UCD Climate Adaptation Research Center, and inaugural director of the multicampus CITRIS Climate Initiative. Before joining UCD in July 2018, he was an Associate Professor at Louisiana State University (LSU). He received his Summa Cum Laude "Laurea" degree in Civil Engineering from the University of Rome "La Sapienza" (Rome, Italy) in 2002, and his M.S. and Ph.D. in Structural Engineering in 2005 and 2007, respectively, at the University of California, San Diego.

He is an expert in both traditional and innovative construction methodologies and materials, with particular emphasis on new recycled and green materials. He is very active in the development of performance-based methodologies in earthquake, wind, and hurricane engineering, as well as in multihazard applications. Dr. Barbato's research embraces nonlinear finite element (FE) modeling and analysis of structural systems; FE response sensitivity analysis coupled with numerical optimization methods; performance-based engineering; random vibration theory; computational structural reliability analysis and probabilistic methods applied to civil engineering; use of alternative/by-product/recycled materials for sustainable structural applications; multihazard assessment and mitigation under current and changing climate conditions; and life-cycle optimization of resilient/sustainable structures subject to multiple hazards.

He is the author/co-author of more than 200 technical publications, including several articles published in the ASCE Journal of Engineering Mechanics. He has been the recipient of the 2009 ASCE Moisseiff award for the paper "Nonlinear Seismic Response Analysis of Steel-Concrete Composite Frames". He was also awarded the 2007 ICASP10 Overseas Student Scholarship, the European Association of Structural Dynamics 2011 Junior Research Prize in the area of Development of Methodologies for Structural Dynamics by the European Association of Structural Dynamics (EASD), the Best Paper Award for Young Experts at the 12th International Symposium on Structural Engineering (ISSE-12), the 2020 ASCE Sacramento Section Fredrick Panhost Structural Engineer Award, the 2020 Walter L. Huber Civil Engineering Research Prize, and the 2022 Best Paper Award of the Journal of Research on Engineering Structures and Materials (RESM), as well as numerous teaching and service awards. His paper "Performance-Based Hurricane Engineering (PBHE) framework" has been recognized as one of the five most cited papers in the period January 2013-June 2016 among the papers published in Structural Safety (Elsevier). He was elected as Structural Engineering Institute (SEI) Fellow and Engineering Mechanics Institute (EMI) Fellow in 2019, and ASCE Fellow in 2021.

He is a member of the Editorial Board of the ASCE Journal of Composites for Construction, Resilient and Sustainable Infrastructures (Elsevier), and Resilient Cities and Structures (Elsevier). He is an associate editor of the ASCE Journal of Architectural Engineering, ASCE Natural Hazards Review, and ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems: Part A and Part B. He is also the Editor for the Section on Earthquake Engineering and Structural Engineering in the Journal of Research on Engineering Structures and Materials (MIM Research Group). Dr. Barbato is a member of several national and international technical committees. Dr. Barbato served as chair of the EMI Dynamics Committee and SEI Multihazard Mitigation Committee and is chair of the SEI Performance Based Design of Structures Committee and a member of the EMI Board of Governors. He has also been active as an organizer of minisymposia and special sessions in national and international conferences, and as a guest editor of several special issues in peer-reviewed international journals. He has received more than $7M of competitive research funding from federal, state, and local agencies, as well as from private companies and non-profit organizations.