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**VISION STATEMENT**

I wish to write this statement to express my vision on the governance and development of ASCE Engineering Mechanics Institute (EMI), as well as my strong interest and commitment towards the organization.

First, I wish to elaborate on my 25-year close involvement with both ASCE and EMI, I first joined ASCE as a member in 1999 and I was conferred the ASCE fellowship in 2013. I have been a very active member of ASCE and EMI for many years and I was elected as an EMI Fellow in 2017. I served on the EMI Stability committee as Vice Chair (2017-2019) and Chair (2019-2021), and currently I am still serving the EMI Stability Committee as a Past-Chair and a key member in the Committee Control Group. I am also the Lead Guest Editor, since 2021 for a Journal of Engineering Mechanics (ASCE) special issue which is in the process of being published soon in the journal.

About my other experience in organizational governance, I wish to mention some key positions. Currently, I am the Chair of ASME Hong Kong Section (2021-2023), and I will likely be elected as the ASME Hong Kong Section Chair in June 2023. I am also the General Council member of IACM and APACM since 2019, Technical Committee member of IFToMM, Chair and/or committee members for a few international medals and awards, and many key editorial positions in international journals. For details, please refer to my biography attached.

From the facts and past experience described above, I have strong confidence that I will be able to serve positively for the organization if elected as a member of the EMI Board of Governors. I believe I will contribute very significantly and positively to the communities of ASCE in general and EMI in particular.

My primary vision is for ASCE/EMI to be a world-renowned professional organization for pioneering scientific research and innovation, and quality teaching and learning for nurturing future scientist and engineers in all disciplines of engineering mechanics for the betterment of society. If elected as a member of EMI Board of Governors, my primary mission will be to inspire and nurture the next generation of creative and innovative specialists in multiple disciplines of engineering mechanics, who are willing and capable of using their knowledge to serve the community. Through the organization, I will work with the Board to pioneer cutting-edge research in engineering mechanics and translate knowledge into innovations that benefit the global society.

EMI within ASCE started about sixteen years ago in 2007. Although it is well-established with a matured organizational structure and well-specified strategy, there is always room for improvement. With respect to the general vision and mission stated above, and if elected as a Board member, I will participate actively to contribute as a supportive member working as a team under the leadership of the President to try to achieve the organizational objectives. In addition, I will ask myself the following questions:

- Where do we want the organization (EMI) to go, both short-term and long-term?
- What can we realistically achieve?

- What problem does the organization intend to solve?
- What are the changes we believe EMI can make both for individuals and for the industry?
- How will things be different if the vision is realized?

Honoursly, it is easy to formulate standard solutions (like scientific and engineering problems) to the questions, however, it will never be simple to achieve them. Even if some incremental targets are achieved from time to time, we will never be certain that the achievements at the end of the day will, by all means, suit the ever-changing and ever-evolutionary society in the future. For instance, barely a few years ago, we never expected that a few years later, there would be a commercial tool called “ChatGPT” that would likely replace the many tasks and roles of professionals like us.

To this end I believe I would be very suitable to help EMI to achieve the objectives and targets as stipulated in the questions above. Further, I will be an efficient team worker rather than an individual. Hence, my involvement in the EMI Board of Governors, if elected, will be a new blood that will add strength to the current management team under the leadership of the President.

## SHORT BIO

Professor Lim received a BEng from University of Technology of Malaysia, MEng and PhD from National University of Singapore and Nanyang Technological University, respectively. Prior to joining City University of Hong Kong (CityU), he was a post-doctoral research fellow at The University of Queensland and The University of Hong Kong. Professor Lim is also a visiting professor at various universities including the University of Western Sydney, Dalian University of Technology, Huazhong University of Science and Technology, etc.

Professor Lim receives global recognition for original research in applied and computational mechanics. He was awarded the J.N. Reddy Medal 2020 for “significant and original contributions to vibration of plates and shells, smart piezoelectric structures, nanomechanics, and symplectic elasticity.” He has published over 370 articles, H-index 62, over 14,500 citations. He has co-authored one very well-selling title in Engineering Mechanics titled “Symplectic Elasticity”, as recorded in April 2010 by the publisher, World Scientific. As the first and corresponding author in another work, he established one ground-breaking theory and the paper has accumulated over 1,150 citations since first published in 2015. It is also a highly cited paper in JMPS as well as the most cited paper since 2004 in the journal. His other work was granted the IJSS 2004-2008 most cited article award. He also published a research paper in Nature Communications. He was awarded Top Referees in 2009, Proc. A, The Royal Society.

Professor Lim holds fellowships of ASME, ASCE, EMI, and HKIE. He was awarded the Tan Chin Tuan Exchange Fellowship by Nanyang Technological University in 2016. Recently he was elected by secret votes to deliver a Plenary Lecture at World Congress on Computational Mechanics 2022<sup>1</sup>, the largest biennial meeting for computational scientists. WCCM 2020 recorded over 400 mini-symposia and over 5,000 papers accepted<sup>2</sup>. He has delivered over 50 plenary/keynote speeches worldwide. In addition, he also presented a keynote speech at PHM-2021 which is a reputable IEEE international conference. On another scientific occasion, Professor Lim was one of the distinguished speakers at a forum on 28, May 2022 organized by Chinese Science Bulletin that was broadcasted online on five different virtual

platforms. He was the opening speaker and it was marvelous to note that the scientific forum accumulatively attracted a remarkable over 30,000 strong audience online.

He holds the Chair of Selection Committee (2017-present) for J.S. Rao Medal in Vibration Engineering, GC member of IACM and APACM since 2019, Selection Committee Member of APACM awards, Vice Chair/Chair (2018-2022) for ASCE/EMI Stability Committee, Vice Chair (2021-Present) for ASME/HK Section, and Technical Committee for IFToMM since 2011.

He received multiple research grants totaling millions of dollars, one FE software and four patents. He serves on over 20 journal editorial boards, notably JoMMS (co-Editor-in-Chief), JVET (Managing Editor), AMM (International Subject Editor), JSV (Subject Editor), RSOS (Engineering Subject Editor), etc.

1 <https://www.wccm2022.org/virtual.html>

2 <http://wccm-eccomas2020.org/frontal/introduction.asp>