

## **Statement of Vision from Professor C.W. Lim for ASCE Engineering Mechanics Institute (EMI)**

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 professional organization.

First, I wish to elaborate on my over 25-year involvement with both ASCE and EMI. I first joined ASCE as a member in 1999 and I was conferred the ASCE fellowship in 2013. On the other hand, I have been a very active member of 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 was also the Lead Guest Editor for a *J. Engineering Mechanics* (ASCE) special issue which was already published in the journal in 2022.

About my other experience in organizational governance, I just wish to mention some key positions. Currently, I am the Chair of ASME Hong Kong Section (2023-Present) and the Vice Chair (2021-2023). 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 short biography attached to the candidate's information.

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 in 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 scientists and engineers in all disciplines of engineering mechanics for the betterment of the 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 in 2007. Although it has been well-established with a matured organizational structure and well-specified strategies, there are always rooms 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 put forward to myself to answer the following questions:

- Where do we want the organization (EMI) to go both short-term and long-term?
- What can we realistically achieve?
- What problems do the organization intend to solve?
- What are the changes we believe EMI can make both for individuals and for the industry?
- How will professional roles and responsibilities be different if the vision is realized?

Honoursly, it is easy to formulate standard solutions (like scientific and engineering problems) to the questions above, 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 did never expect that a few years later, there would be a commercial tool called "ChatGPT" that would likely to 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 believe I will be an efficient team member 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.

**A Brief Bio-sketch of Professor C.W. Lim**  
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Ir 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 (Australia), University of Johannesburg (South Africa), University of Canterbury (New Zealand), 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 published over 410 articles, H-index 69, and over 18,500 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 1,650 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, the largest biennial meet for computational scientists. WCCM 2020 recorded over 400 mini-symposia and over 5,000 papers accepted. He has delivered over 70 plenary/keynote speeches worldwide. In addition, he also presented a keynote speech at PHM-2021 which is a reputable *IEEE international conference*. In another scientific occasion, Professor Lim was one of the distinguished speakers at a forum on 28 May 2022 that were broadcasted online on *five different virtual platforms*. 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 (2021-2023) and Chair (2023-Present) for ASME HK Section, and Technical Committee Member 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.