

## Preface

### Warmest Congratulations to Dr. Yuan-Cheng Fung at His Centennial Celebration

#### Opening Speech at the First International Conference on Biomechanics and Medical Engineering

**Abstract:** Professor Y.C. Fung has made tremendous impacts on science, engineering and humanity through his research and its applications, educating many students and their students, and providing his exemplary leadership [1-3]. He has applied his profound knowledge and elegant analytical methods to the study of biomedical problems with rigor and excellence. He established the basic principles of biomechanics in living tissues and organs. He opened up new vista for bioengineering, from organs-systems to molecules-genes, and he has provided the foundation of research activities in many institutions in the United States and the world. He has made outstanding contributions to education in bioengineering, service to professional organizations, and translation to industry and clinical medicine. He is widely recognized as the Father of Biomechanics and the leading Bioengineer in the world.

Dr. Fung is a member of all three U.S. National Academies (National Academy of Sciences, National Academy of Engineering, and Institute of Medicine), as well as a Foreign Member of the Chinese Academy of Sciences and a member of Academia Sinica (Taiwan). He has received all the major awards in his fields of endeavor, including the Landis Award from Microcirculatory Society, the von Kármán Medal from American Society of Civil Engineers, Lissner Award for Bioengineering from ASME, Centennial Medal from ASME, Warner Medal from ASME, Poiseuille Medal from International Society of Biorheology, Excellence in Research Award from UCSD, ALZA Award from BMES, Timoshenko Medal from ASME, Borelli Award from American Society of Biomechanics, the Lifetime Achievement Award from the Association of Chinese Scientists and Engineers of California, Distinguished Alumnus Award from California Institute of Technology, Melville Medal from ASME, and Bioengineering Award from the Japan Society of Mechanical Engineering. Dr. Fung has written many authoritative books that are used as textbooks worldwide and set the standard for all bioengineering textbooks.

Dr. Fung has received three of the most prestigious awards: In 1998, he received the Founders Award, which is the highest honor given annually by the NAE. In 2001, he received from President Clinton the United States National Medal of Science, which is the highest honor in science and engineering in the Nation. In 2007, he received the Russ Prize, which is awarded by the NAE for his achievements of critical importance in advancing science and engineering, ultimately improving the human condition.

Dr. Fung is a Fellow of the American Academy of Mechanics, American Institute of Aeronautics and Astronautics, ASME, American Institute of Medical and Biological Engineering, and Cardiovascular Section of the American Physiological Society. He is the recipient of Honorary Doctoral degrees and Honorary Professorships from many universities in China (including Hong Kong) and U.S.A. He has been invited to give many named lectures and plenary speeches, and he is an Honorary Member of several scientific organizations.

In honor of Dr. Fung, the ASME established the “Y.C. Fung Young Investigator Award”, the Chinese Association of Biorheology and Chinese Society of Biophysics (with funding from the International Society of Biorheology and the International Society of Clinical Hematology) established the “Fung-Chien Young

Investigators Award”, and UCSD established the Endowed Chair “Y.C. Fung Professor of Bioengineering”.

Dr. Fung’s extraordinary achievements and commands in science, engineering and the arts make him a Renaissance Man for the world.

Dear Dr. Fung, on this marvelous occasion of your 100<sup>th</sup> Birthday, we would like to express our warmest congratulations and best wishes for your Best Health and a Happiest Birthday; Many, Many Happy Returns!

Shu Chien

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2. Chien S. Dr. Y.C. Fung’s contributions to biomechanics, bioengineering and humanity: warmest celebration for a magnificent centenarian. *ASME Journal of Biomechanical Engineering* **2019**, 141, doi: 10.1115/1.4044053. [Epub ahead of print].
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