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## Professor Shi-Ming Yang on his 70th birthday



Professor Shi-Ming Yang celebrated his 70th birthday this year. In honor of this anniversary, we wish to take this opportunity to acknowledge his many outstanding contributions and pioneering achievements during his career as a teacher and researcher in the field of heat transfer.

Professor Yang was born on 5 January 1925 in Jiangsu, China. He received his BS degree from Shanghai Jiaotong University in 1948 and his MS degree from Case Institute of Technology (U.S.A.) in 1950. From 1950 he became a graduate student of Professor Max Jakob and received his Ph.D. degree from Illinois Institute of Technology (U.S.A.) in January 1953. Upon the request of Professor Jakob, he joined the Heat Transfer Laboratory of IIT before he returned to China at the end of the year. He returned to Shanghai Jiaotong University in 1956. From 1958 to 1985, as Associate Professor and Professor, he was in charge of the Thermal Engineering Institute of Xian Jiaotong University. After 1985, he returned to Shanghai Jiaotong University to take up full-time teaching and research activities until the present.

Professor Yang has been a pioneer in heat transfer education in China. He published his *Heat Transfer* textbook, which was the first in China, in 1958. Seven revised editions with a total of over 200,000 volumes have been printed. This textbook was welcomed as a favorite textbook, and he received the National Excellent Textbook Award in 1988.

Professor Yang's research contributions of over 60

published papers cover a wide range of topics in heat transfer, from theoretical investigation of phase change heat transfer, theoretical analysis of thermocouple conduction errors for high heat flux surfaces to experimental studies of boundary layer interactions for complex flow phenomena. He was among the pioneer researchers to reveal the dimensionless ratio of the maximum sensible heat to the latent heat in a phase change, which was later called the Jakob number. His effective coupled diffusion model for heat and mass transfer in porous media provides the most concise theoretical expression for the complex physical phenomena. His analysis of the effect of physical property variations on natural convection heat transfer covers the most extensive range of parameters. In recognition of his outstanding contributions he received the National Award for Distinguished Contributions in 1991.

Professor Yang has been active in domestic and international scientific organizations for many years. Currently, he serves as a standing member of the Executive Committee of the Chinese Society of Engineering Thermophysics, and as Vice Chairman of the National Educational Advisory Committee on Thermal Engineering. He has also served on the Editorial Board of the *Journal of Engineering Thermophysics* since 1980, on the Honorary Editorial Advisory Board of the *International Journal of Heat and Mass Transfer* since 1982, and on the Executive Committee as well as the Scientific Council of the International Centre

of Heat and Mass Transfer since 1987. His tireless efforts to promote international scientific exchange and cooperation have been widely recognized.

Professor Yang is well-versed not only in the field of heat transfer, but also in the diverse subjects of literature and history. He has two children and is a grandfather of two lovely grandchildren. His daughter is a medical doctor and his son is an engineer. On the occasion of his 70th birthday, it is a great pleasure for

his students, colleagues and friends all over the world to wish him many years of good health and happiness.

B. X. WANG  
K. T. YANG  
S. Y. KO  
Z. Y. GUO  
W. Q. TAO