

FOREWORD

On 3 September 1989 Professor Yoshiro Katto celebrated his 65th birthday.

Professor Katto graduated from the Department of Mechanical Engineering, Faculty of Engineering, Imperial University of Tokyo, in 1946. After 16 years as a Research Member at the Institute of Science and Technology of the University of Tokyo and at the National Aerospace Laboratory of the Science and Technology Agency, in 1952 he joined the staff of the University of Tokyo as Associate Professor in Mechanical Engineering and served as Full Professor from 1952 to 1985.

His scientific activities cover the wide range of thermal engineering, i.e. solar energy, steam ejectors, air bearing, surging in axial flow blowers, numerical solutions in heat conduction, thermal radiation of high-temperature particle-clouds, oscillation of gas columns caused by heat conduction, natural convection in porous media, critical flow of compressible two-phase fluids, peculiarities of evaporating liquid surfaces, boiling heat transfer etc. In particular, his research on the critical heat flux in boiling is worthy of special mention and has been published collectively in *Advances in Heat Transfer*, Vol. 17: Academic Press, New York (1985). He is author or co-author of more than 150 journal papers as well as about 30 books and review articles.

In recognition of his work he has been honored with many awards. Among them are awards for best papers from the Japan Society of Mechanical Engineering (JSME) in 1963 and 1979, the ASME-JSME Thermal Engineering Joint Conference Award in 1982 and a Distinguished Service Award for the Development of Science and Technology from Tokyo Metropolis in 1984.

Professor Katto has been a very active member of the JSME. He has served as Director, Vice-president and President of the JSME and Vice-president and President of the Heat Transfer Society of Japan. In addition, he has proved a valuable member of the international thermal engineering community in his role as the delegate from Japan to the Assembly for International Heat Transfer Conferences since 1978, as a member of the Honorary Editorial Advisory Board of the *International Journal of Heat and Mass Transfer* and *International Communications in Heat and Mass Transfer* since 1974, as Associate Editor of the *International Journal of Multiphase Flow* since 1974 and as Associate Editor of *Applied Mechanics Reviews (ASME)* since 1986.

In 1985 Professor Katto retired from duties and was nominated as Professor Emeritus of the University of Tokyo. He continues his scientific activities and teaching as Professor of Nihon University.

We wish him a happy life, good health and continued success.

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