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## Professor Sadik Kakaç on his 70th birthday



Professor S. Kakaç is one of the well-known scientists in the field of thermal sciences and well respected amongst his professional colleagues. He was born on October 1, 1932 in Corum, Turkey. He received his degree of Dipl.-Ing. from the Faculty of Mechanical Engineering at the Technical University of Istanbul (1955) and his S.M. (1959) in Mechanical Engineering, and his S.M. (1960) in Nuclear Engineering, both from the Massachusetts Institute of Technology. In 1965, he received his Ph.D. in the field of heat transfer from the Victoria University of Manchester, UK. He became a full professor of Mechanical Engineering in 1971 at the Middle East Technical University, Ankara. He was elected as a member of the Turkish Scientific and Technical Research Council in 1972 and the General Secretary of the Turkish Atomic Energy Commission in 1978, and represented Turkey in a number of scientific endeavors abroad. He became professor of Mechanical Engineering at the University of Miami (1982) and Chairman of the Department (1990–1998).

He is the recipient of the Alexander von Humboldt Senior Distinguished US Scientists Award (1990), the ASME Heat Transfer Memorial Award (1997), and the ICHMT Fellowship Award (1997), Distinguished Service Award from the Middle East Technical University (1998) and from the Turkish Scientific and Technical Research Council (TUBITAK) (2000). He is a fellow of

the ASME, member of the Turkish Academy of Sciences, and the Academy of the Sciences of Russian Federation. He is a honorary professor of Shanghai Institute of Electrical Power, China; consulting professor of Xi'an Jiaotong University, China; and honorary professor of the College of Engineering at the Ghandi Institute of Technology and Management (India); he received the Doctor Honoris Causa, University Ovidius, Romania (1998) and the Doctor Honoris from the University of Reims, France (1999). He is the author or co-author of six heat transfer text books, and more than 200 research papers, as well as 14 edited volumes in the field of thermal sciences and heat exchanger fundamentals and design, including the *Handbook of Single-Phase Convective Heat Transfer*.

The research work of Professor Kakaç has covered a wide scientific spectrum starting from theoretical modeling of transient forced convection to experimental and theoretical analysis of heat transfer with convective boiling and multi-phase flow, hydrogen energy, and fuel cells. He has also been occupied with problems concerning nuclear safety. However, his topic of most intense dedication is the research in two-phase-flow instabilities with vapor–liquid flows. In all of these fields he has performed pioneering work to become one of the most outstanding scientists in the field of heat transfer.

Professor Kakaç became member of editorial advisory boards in different journals—*International Journal of Heat and Mass Transfer*, *International Journal of Thermal and Fluid Sciences*, *International Communications in Heat and Mass Transfer*, *Advances in Transport Processes*, *Journal of Hybrid Methods in Engineering*, and associate editor of *International Journal of Thermal Sciences*. His remarkable international reputation is also documented by his appointment to editorial boards of other highly recognized international journals outside his field of most direct participation, such as the *Journal of Pure and Applied Sciences* and the *International Journal of Hydrogen Energy*. He has been frequently invited as lecturer and speaker by various institutions in the USA, Europe, Japan, Brazil, and China.

Especially well known and highly appreciated are his activities in organizing NATO-Advanced Study Institutes in regular intervals on various topics of thermal sciences. Convening in his native Turkey, Professor Kakaç helped advance international cooperation in engineering education and research through these ASIs by carefully forming multi-national teams of heat transfer experts and young educators that he invited to the ASIs.

His former graduate students have already made their names in the field of heat transfer. In addition to

his own graduate students, Professor Kakaç was also responsible for advising and supporting a number of other younger scientists that have fortunately crossed his way, all over the world, who are nowadays mature and well-established scientists, mostly due to his endless help and encouragement. Besides all the quite evident qualities as an individual and the well-documented achievements as a scientist, Prof. Kakaç has inherently provided the world with a significant contribution towards the approaching of different cultures and research ideas, allowed for by his international leadership and restless scientific exchange activities.

Professor Kakaç is a devoted husband, father, and grandfather. On the occasion of his 70th birthday, on behalf of his students, colleagues and friends all over the world, we wish him a very happy birthday and many more active years in good health and happiness with his wife Filiz Kakaç, daughter Yasemin, and grandchildren, Melda and Cahit.

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