

Prof. Gautam Biswas

Title of Talk: Interfacial Instability and Multimode Bubble Formation in Saturated Film Boiling with and without External Force Fields

Dr. Gautam Biswas is presently a Professor of Mechanical Engineering at the Indian Institute of Technology Kanpur. Earlier, he has been the Director of Indian Institute of Technology Guwahati, and Director of the CSIR-Central Mechanical Engineering Research Institute at Durgapur. He was the G.D. and V.M. Mehta Endowed Chair Professor, and Dean of academic affairs at IIT Kanpur. The research group of Professor Biswas at IIT Kanpur identified the phenomenon of Rayleigh-Taylor Instability during the bubble formation in film boiling. This was a significant addition to the classical theory, based on Taylor Helmholtz instability. Another seminal contribution of his group probes the zone of large bubble entrapment and underlying physics during the complete coalescence of a falling drop on a liquid surface. Professor Biswas is the author of more than 150 publications in the International Journals. He has completed guidance of 22 PhD theses.



He was a Humboldt Fellow in Germany in 1987-88 and JSPS invited fellow in Japan 1994. He is a Fellow of the American Society of Mechanical Engineers (ASME). He has served a full term as the Associate Editor of the Journal of Heat Transfer (Trans ASME). He was a Guest Professor at the University of Erlangen-Nuremberg in 2002. Currently he is Associate Editor of a well-known CFD-Journal, - Computer and Fluids.

Prof Gautam Biswas is a Fellow of the all three major Science Academies of India, such as, the Indian National Science Academy (INSA), New Delhi, the Indian Academy of Sciences (IAS, Bangalore) and the National Academy of Sciences India (NASI, Allahabad). He is a Fellow of the Indian National Academy of Engineering (INAE) and Institution of Engineers India (IEI). He is the immediate past-President of ISHMT. He has been awarded the esteemed J.C. Bose National Fellowship by the Department of Science and Technology, New Delhi in 2011. Prof. Biswas was bestowed with Distinguished Alumnus Award by BESU (now IEST, Shibpur) in the year 2013. He has been awarded the Distinguished Alumnus Award by the Indian Institute of Technology Kharagpur in 2016. Prof. Biswas was conferred Honorary Doctorate (Honoris Causa) by National Institute of Technology Agartala, India, in 2017. He has been conferred Honorary Doctorate by the Aristotle University of Thessaloniki, Greece, in 2018.