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Prof. Jagadeesh is one of the leading researchers in Hypersonic Aerothermodynamics and shock wave propagation in complex fluids. He has published over 350 papers in peer reviewed International Journals, conferences and edited 3 books. He has TWENTY-FIVE PATENTS on various discoveries related to Shock Waves and hypersonic flow control. He has been bestowed with several awards in recognition of his contributions to science and technology including the prestigious “Rajyotsava Award” by the Govt. of Karnataka.

He is currently the President of the International Shock Wave Institute, Japan and the Society for Shock Wave Research India. Based on his immense and seminal contributions to science and technology he has been elected as a Fellow of the Royal Aeronautical Society, (UK), Indian Academy of Sciences, Indian National Science Academy, National Academy of Sciences, National Academy of Engineering, India and Associate Fellow of American Institute for Aeronautics and Astronautics.