

## **Tilak Agerwala Bio**

Tilak Agerwala is an Adjunct Associate Professor in the Seidenberg College of CSIS, Pace University, NY and an IBM Emeritus. He is interested in the application of high performance and data centric technologies to create transformational solutions in science, engineering, energy, healthcare, education and national security.

In his IBM career, spanning 35 years, Tilak held executive positions in research, strategy, advanced development, marketing, and business development. He was responsible for IBM Research activities worldwide on the next-generation hardware and software technologies for IBM's servers, supercomputers, storage, data center networking, and cloud infrastructures, with a team of 600 researchers in 8 labs worldwide. Tilak established innovative research programs in exploratory storage systems, "fit-for-purpose" computing, high performance computing and analytics on big data, cloud computing, programmable infrastructures, computational biology, and computational sciences.

Tilak was part of and led teams that developed and brought to market, technologies and systems for high performance computing such as IBM's UNIX servers and clusters, the SP2 supercomputer, and BlueGene L, P, and Q. As Vice President of Data Centric Systems at the T. J. Watson Research Center (2013-2014) his team established the guiding principles and the architecture for Data Centric Systems, establishing a new paradigm of scalable systems for big data, analytics, technical and cognitive computing.

At IBM, Tilak was a member of IBM's Growth and Transformation Team (2005-2014), a founding member of the IBM Academy of Technology, Co-Chair IBM Asian Diversity Council (2010-2014) and IBM's representative on the Technology Strategy and Leadership Council of the US Council of Competitiveness (2011-2014).

Tilak is a Council Member of the NAS Government University Industry Research Round Table (GUIRR), a member of National Academies Panel on Information Science at the Army Research Laboratory (2015-2017), and a Life Fellow of the IEEE. He received the W. Wallace McDowell Award in 1998.

Tilak has a Bachelor of Technology degree in electrical engineering from the Indian Institute of Technology, Kanpur, India and a Ph.D. in electrical engineering from The Johns Hopkins University. From 1975 to 1978, Tilak was an assistant professor of Electrical Engineering at The University of Texas, Austin. He has given well over a hundred invited presentations, keynotes, and distinguished lectures at conferences, universities and national laboratories worldwide.