

# A Tribute & Celebration of Life Dr. Bapiraju Surampudi



**Dr. Bapiraju Surampudi, devoted husband, doting father, loving son and brother and brilliant scientist passed away on March 30, 2024.**

Fondly known as "Bapi," he was a remarkable scientist, engineer, and mentor whose contributions have left an indelible mark on the world. Born in Narsapur, India to parents Dr. Rama Rao and Rajeswari Surampudi, Bapi's academic journey took him from NIT Surathkal to Masters in IIT Chennai, culminating in a Ph.D. in Mechanical Engineering - Control Systems from Texas A&M University. He is survived by his wife, Anasuya, and two children, Dr. Deepti, Swapomti, and son-in-law Dr. Daniel Thomas.

His illustrious career, which commenced with control systems for combat vehicles in India, spanned 28 years at Southwest Research Institute (SwRI) in San Antonio, Texas, where he ascended to the highest rank of Institute Engineer responsible for the division and Institute technical guidance. Dr. Surampudi has been involved with energy storage system and powertrain control projects. He has developed control systems for diesel engines, transmissions, electric hybrid powertrains, electric vehicles, hydraulic hybrid powertrains and autonomous vehicles. He has led control system development for optimal operation of electrified engine accessories powered by fuel cells which resulted in significant improvements in fuel economy. Managing the EssEs battery consortium since 2011, Dr. Surampudi tested over 30 Lithium-ion batteries, establishing a comprehensive industry database. He has conducted diverse projects including battery characterization for electric vehicles and fuel cell stack development, worked extensively on battery life prediction to help manufactures extend the life, and improved the range of electric vehicles. He served as an advisor in several commercial and government projects in Lithium ion battery testing and modeling. His illustrious career showcases extensive contributions to energy storage systems and transportation technologies. Dr. Surampudi also simultaneously served as Faculty at the University of Wisconsin.

Holding 24 patents with more in review, and presenting technical papers globally, his contributions as a reviewer for the SAE, the IEEE, and the ASME professional societies, and as an expert member in various industry working groups to set standards leave a lasting impact. He is an industry recognized expert in batteries and, according to his colleagues, made unparalleled contributions in hybrid vehicles, engine aftertreatment systems, batteries, and fuel cells have saved millions of lives worldwide, reducing pollution and powering diverse devices from cell phones to medical devices while paving the way for electric vehicles.

Beyond his professional achievements, Dr. Surampudi was a member of the local TASA community. His kindness, generosity, and willingness to mentor others endeared him to friends and colleagues worldwide. His passion for sharing knowledge and solving complex technical challenges exemplifies his altruistic nature. Dr. Surampudi's legacy as a trailblazing scientist, supportive colleague, and cherished friend will continue to inspire future generations in the pursuit of innovative science and technology for the betterment of society.

## Viewing

**Baptist Temple Chapel Hall,  
901 E Drexel Ave, San Antonio, TX, 78240**

**11-2 pm Thursday**

**April 4, 2024**

**Dress Code: Business Casual**

*In lieu of flowers we request that you make a donation to a charity of your choice*