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**Bio:**

**Research Interests:** Dr. Muralidharan received his Ph.D. from the University of Illinois in the field of Materials Science and Engineering. He has worked in the field since 1995, at such places as the Institute of Microelectronics and Argonne National Laboratories. He has six issued patents (two on sensors and four on novel alloys), and nine patent applications pending in the US patent office. He has worked on different types of materials including Ni-based alloys, high temperature ferritic steels, pipeline steels, cast irons, austenitic stainless steels, magnesium alloys, Pb-containing solders, and Pb-free solders. He also has experience in solving problems in microelectronic assembly, and packaging, and applying finite element modeling to study packaging materials. He has worked on MEMS based microphones, microcantilever-based sensors, and on nanomaterials. He has won four R & D 100 awards for innovative products and one regional Federal Laboratory Consortium Award for technology transfer. He has extensive experience in using electron microscopy, x-ray and neutron scattering in characterizing materials. His papers have been published in physics and materials science journals and in high impact journals such as Nature and Science.

His major research interests are structural materials, functional materials, and sensors.