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## Dr. J.K. Tomson



**Dr. Tomson J Kallukalam** is Scientist-D in the Crustal Processes Group in National Centre for Earth Science Studies (NCESS). He graduated in 1998 and did his masters (2000) in Geology from Mahatma Gandhi University, Kerala. He completed his Ph.D. (2008) in Geology from Osmania University. Dr. Tomson started his career as Scientist-B in 2010 at NCESS. He has been actively involved in research programs linked to understanding the crustal evolution of Precambrian granulite terrain of southern India. Over the years, Dr. Tomson has gained considerable experience and expertise in field geologic mapping of complex granulite terrains, major and trace element analysis by XRF and ICP-MS, isotopic analysis of Rb, Sr, Sm, Nd by Thermal Ionisation Mass Spectrometry and Multi-Collector ICP-MS. His research results have appeared in a number of highly cited journals including *Precambrian Research*, *Gondwana Research*, *Geological Society of America Bulletin*, *Geochimica et Cosmochimica Acta* etc.

Some of the significant contributions made by Dr. Tomson in studies of south Indian granulite terrain involve identifying source compositions and tectonic settings for the formation of the charnockite rocks from different crustal blocks of the southern Granulite Terrain and a first ever comprehensive Sm/Nd-model age map for the terrain was prepared utilizing new and published Nd age data. Recently, he has identified distinct age provinces within the granulite blocks of southern India using combined U-Pb zircon and Hf isotope data from basement rocks. These results are significant in understanding the complex evolution of the terrain in connection with Gondwana supercontinent assembly.

Dr. Tomson is instrumental in setting up new facilities for Isotope geochemistry and geochronology studies at NCESS by successful planning and installation of basic infrastructure like modern thin section and sample preparation facilities and LA-ICPMS. Dr. Tomson is a life member of Geological Society of India, Indian Society of Remote Sensing, and Member of Geochemical Society and AGU.

Dr. J.K. Tomson is awarded the Certificate of Merit for his outstanding contributions in the field of Earth Science Studies.