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Professor Chowdari is currently serving as the Executive Director of National University of Singapore (NUS) - India Research Initiatives (IRI), an office set up exclusively for facilitating interactions between NUS and Indian Universities and Institutes. Concurrently he is holding the position of the Executive Director of “Global Enterprise for Micro-Mechanics and Molecular Medicine (GEM⁴)”

Professor B V R Chowdari graduated with a Bachelor’s (1961) degree from Andhra University, India, and subsequently received his Masters (1964) and PhD (1968) from University of Baroda and Indian Institute of Technology, Kanpur, India, respectively. He is a Professor of Physics at NUS. His current field of research focuses on condensed matter physics and materials science. Based on his original research he has published 200 papers in international reputed referred journals and trained 20 students for higher degree. He has 40 years of teaching and administrative experience at the University level.

Professor Chowdari’s professional experiences include working as Visiting Associate Professor at University of Pennsylvania, Philadelphia, USA and Visiting Professor at University of Zurich, Switzerland. He has gained international recognition with his involvement on the Editorial Board of the journals such as Solid State Ionics, Journal of Solid State Electrochemistry, Journal of Materials Education and Materials Research Foundations. He also served as a member of the International Scientific Committee or Chairman of the Organizing Committee for more than 30 International Conferences. In 2006, he received the award “**Officer in the Order of Academic Palms**” from the French Government. Recently, has been awarded **National Day 2008 “Long Service Medal**” by the Republic of Singapore. More recently he has been elected as the **President of the “International Union of Materials Research Societies (IUMRS)”**.

Professor Chowdari founded the Asian Society for Solid State Ionics in Singapore in 1986 and served as its Executive Secretary and Treasurer till 2000. He also assumes the role of President and Treasurer for the last fourteen years in the same society. Serving as the President of Materials Research Society of Singapore (MRS-S) for the last ten years, he has organized the first six biennial "International Conferences on Materials for Advanced Technologies" and currently serving as Chairman for the 7th Conference in the same series with expected participation of 3,000 delegates including a few Nobel Laureates. He has also served as the Chairman of the conference “AsiaNANO 2008” held in Nov 2008.

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Electrode Materials for Lithium Ion Batteries

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Lithium ion batteries are found to have wide range of applications in variety of mobile devices ranging from simple toys to electric vehicles. The performance of these batteries depends on the choice of constituent materials. In this lecture, the materials aspects and perspectives of the electrode batteries will be discussed. Results from some of the specific studies made at speaker's laboratory will be presented.