

Sandia Energy Research Program  
Babu Chalamala, Sandia National Laboratories

#### SYNOPSIS OF YOUR PRESENTATION (two paragraphs)

Energy research at the laboratory covers a broad range of research areas and themes. After an overview of the energy research program, this presentation will detail current research in the following three program areas: Basic Energy Research, Stationary Power, and Transportation Energy with a particular focus on renewable energy systems and grid modernization.

#### BRIEF BIO (two paragraphs highlighting your experience and the impact of your work)

Dr. Babu Chalamala  
Manager, Energy Storage Systems and Technology Dept.  
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Dr. Babu Chalamala is Manager of the Energy Storage Technology and Systems Department at Sandia National Laboratories. Prior to joining Sandia in August 2015, he was a Corporate Fellow at MEMC/SunEdison for five years, where he led R&D and product development in grid scale energy storage. Before that, he founded two startup companies commercializing large format lithium batteries and digital x-ray sources. Earlier, as a research staff member at Motorola, Research Triangle Institute, and Texas Instruments, he made contribution to the development of electronic materials and device technologies.

He is a Fellow of the IEEE and Academy of Sciences St Louis, a Life Member of the Electrochemical Society, and a Member of the Materials Research Society. As chair of the IEEE Photonics Society Technical Committee on Displays, he was instrumental in launching the IEEE/OSA Journal of Display Technology. He has been an active member of the Materials Research Society for twenty years and served as General Chair of the 2006 MRS Fall Meeting. He served on the editorial boards of the Proceedings of the IEEE, IEEE Access and the Journal of Display Technology. He was also a guest editor for special issues of the MRS Bulletin, Proceedings of the IEEE, and the IEEE Journal on Selected Topics in Quantum Electronics. He is currently a member of the IEEE Fellow Committee, IEEE PES Energy Storage and Stationary Battery Committee, and the MRS New Meetings and Government Affairs Subcommittees. He received his B.Tech degree in Electronics and Communications Engineering from Sri Venkateswara University and his PhD degree in Physics from the University of North Texas. He received the 2015 James Eads Award of the Academy of Sciences St Louis. He received the 2015 James Eads Award of the Academy of Sciences St Louis. He authored over 90 publications and 8 US patents related to energy storage, display technologies and electronic materials.

#### PROFESSIONAL PHOTO



ARE YOU WILLING TO SPEAK WITH THE MEDIA?

Yes