The National Conference on Ceramics for Medical Applications (CMA 2005) held during September 15 -16, 2006, was a unique conference conceived and organized by the Chennai chapters of the Society for Biomaterials and Artificial Organs (SBAOI), and Indian Ceramic Society (InCerS) along with the Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras (IITM) for the first time in India. The CMA 2005 provided front-line researchers, manufacturers, dentists and surgeons involved in bio-ceramics a platform to share their latest findings and accomplishments and have stimulating discussions as well as enjoyable and educating interactions.

More than 30 abstracts were received for the CMA 2005 from all parts of the country. The overwhelming response was an indication of the growth of research activity in bio-ceramics in India. Keynote lectures by leading specialists were also arranged to review the current status in the synthesis, processing, characterization and applications of ceramic materials in medicine. Their enthusiastic participation and contributions is highly appreciated by the organizers. All the papers were presented in five oral sessions on biological ceramics, ceramics/composites for dental applications, ceramics/surfaces in delivery system, biomimetic ceramics/coatings, and novel biomaterials and their synthesis. Three awards for best presentation, technical content and clinical applications were given to the participants. This proceeding contains twelve papers presented at CMA 2005.

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Guest Editor