

Brief Bio-Data of Mr Sitendu Mandal

Mr Sitendu Mandal, Chief Scientist & Head, Specialty Glass Division and Project Planning and Business Development Division as also In-charge, Publicity and Public Interface Cell, CSIR-Central Glass & Ceramic Research Institute, Kolkata, obtained his MSc degree from Visva Bharati University, Santiniketan, West Bengal with specialization in Inorganic Chemistry.

During his tenure of 31 years at CSIR-CGCRI, he played a very key role in research and developmental work in the field of glass science & technology, especially in the areas of optical glass technology, specialty optical glass, ultra low expansion glass-ceramics, low expansion ceramics, etc. His current research activities are in the areas of high density radiation shielding window (RSW) glass for radiation protection in nuclear hot cell and specialty borosilicate glass frit / bead for nuclear waste immobilization wherein technology development and commercialization have been the main focus. While the radiation shielding window glass is being produced in pilot scale at CGCRI for catering to the need of DAE, the technology of specialty glass beads has been successfully transferred to an industrial partner for commercial production and supply to DAE's units. He is the key person for indigenous production of RSW glass and borosilicate glass bead for nuclear waste immobilization in our country. He has taken an ambitious target to produce RSW glass in specialty refractory crucible instead of platinum crucible for DAE.

The activities of Mr Mandal resulted in development of appropriate technology, development of product (strategic material), generation of knowledge base in the form of technical papers, patents, reports etc. He has published 15 papers in national and international journals and conference proceedings and filed 4 patents in India. He has also prepared more than 15 reports / documents for restricted circulation and delivered more than 12 invited lectures in several national and international conferences, workshops, etc.

Mr Mandal is the recipient of several prestigious awards, viz. CSIR Technology Award-2018 under the category 'Innovation', SKOCH Order of Merit Award 2017 for top 30 Skoch Transformational Innovation Projects in India, "Certificate of Merit" CSIR Technology Award for Innovation 2017, Best Technology Award for the three successive years (2013, 2014 and 2015) given by CSIR-CGCRI, NRDC Meritorious Innovation Award 2013, Malaviya Award 2004 given by the Indian Ceramic Society, CSIR-DAAD Scholarship for 16 months for the block year 1994-95, and many more.

Apart from his visit to Germany under CSIR-DAAD fellowship, he also visited Prague, Czech Republic to attend the 23rd International Congress on Glass (ICG 2013); Montpellier, France to attend the 6th Workshop in Glass Science and Technology (July, 2014) organized by International Congress on Glass; Boston, Massachusetts, USA to deliver a presentation at the 25th International Congress on Glass (ICG 2019).

He is a Life Member of several professional societies, viz. Indian Ceramic Society (InCerS), Indian Institute of Metals (IIM), Materials Research Society of India (MRSI), Indian Science Congress Association, Indian Institute of Ceramics, Indian Science News Association and Electro Microscopic Society of India. He is also a Fellow of Indian Institute of Ceramics and West Bengal Academy of Science and Technology. At present he is also the Chairman of InCerS, Kolkata Chapter. He was an Executive Committee Member of IIM for the year 2017-18 and 2018-19, and a Council Member of InCerS for the term 2017-2018. Apart from these, he is also affiliated to numerous scientific/technical committees of national/international level in various prestigious positions and holds honorary positions of various committees at CSIR-CGCRI.