



**Dr. Sitendu Mandal**  
**Honorary Secretary, Indian Ceramic Society**

Dr. Sitendu Mandal, Former Chief Scientist & Head, Specialty Glass Division, CSIR-CGCRI, obtained his Ph.D degree from National Institute of Technology Jamshedpur. During his tenure of nearly 35 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, Lead free Barium Bismuth Glass 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.

Dr. Mandal is the recipient of several prestigious awards, viz. **Deokaran Award of Glass – 2024** from The Indian Ceramic Society under Glass Science and Technology, **International Scientist Award 2023 by the National Environmental Science Academy (NESAs)**, CBRI, Lucknow on 14th December, 2023, **Swami Vivekananda Excellence Award 2023** by the International Benevolent Research Foundation (IBRF), Kolkata, **Life time Achievement Award 2022** by the International Academy of Science and Research, Kolkata, West Bengal, **D N Agrawal Memorial Award 2021 from The Indian Ceramic Society**, **Gopal Chandra Bhattacharyya Memorial Award** by the Science Association of Bengal, **CSIR Technology Award-2018**, **SKOCH Order of Merit Award 2017**, **“Certificate of Merit” CSIR Technology Award** for Innovation 2017, **Best Technology Award** for the three successive years (2013, 2014 and 2015), **NRDC Meritorious Innovation Award 2013**, **Malaviya Award 2004** and **DAAD Fellowship Award to Germany for the year 1994-95**. He has published **20 papers** in national and international journals and conference proceedings and **filed 4 patents** in India.

Dr. Mandal has also delivered **25 invited talks** in national and international conferences. He is a Life Member of several professional societies. He is also a **Fellow of Indian Institute of Ceramics (IIC)**, **West Bengal Academy of Science and Technology (WBAST)** and **Fellow of National Environmental Science Academy (NESAs)**. He has visited many places in abroad to represent India in particular CGCRI including CSIR-DAAD Scholarship in Saarbrücken, Germany, 1994-95, Prag, Cze Republic, 2013, Montpellier, France, 2014, Boston, New York, 2019 and Berlin, Germany, 2022.

At present he is also the Honorary Secretary of Indian Ceramic Society and Chairman of the Society, Kolkata Chapter. He is also Council Member of International Congress on Glass (ICG), Representing India, Steering Committee Council Member of International Year of Glass (IYoG), Representing India and Council Member of Indian Science News Association (ISNA).

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