

Special Service and Features



CSIR-SERC organises a Brainstorming session on “Energy Dissipation Systems: Challenges, Opportunities and the Way Forward”

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CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai organised a brainstorming session on “Energy Dissipation Systems: Challenges, Opportunities and the Way Forward” in Chennai, on 25 August 2026. Scientists and research scholars of CSIR-SERC participated in the programme, which provided a platform for technical discussions and exchange of ideas on recent developments and future directions in energy dissipation systems for structural applications.



The programme commenced with a brief introduction by Dr. C. Bharathi Priya, Scientist F, Advanced Seismic Testing and Research (ASTaR) Laboratory, CSIR-SERC. Dr. P. Kamatchi, Head, ASTaR Laboratory, CSIR-SERC, presented an overview of the activities and research initiatives of the ASTaR Laboratory.

The technical programme featured three talks by distinguished experts. Prof. Amlan K. Sengupta, Professor, Department of Civil Engineering, IIT Madras, delivered a lecture on “Analytical Modelling of the Shear Deformation of Reinforced Concrete Wall-Type Member under In-Plane Stresses,” providing insights into analytical approaches for understanding the behaviour of reinforced concrete structural members under in-plane loading.



Dr. N. Gopalakrishnan, Former Director, CSIR-CBRI and Former Head, ASTaR Laboratory, CSIR-SERC, spoke on “Introduction to Semi-Active Control Systems,” covering the principles and applications of semi-active control systems for structural response control.

Dr. K. Muthumani, Former Head, ASTaR Laboratory, CSIR-SERC, presented “Hybrid Passive Energy System for Framed Structure,” highlighting approaches for improving the performance of framed structures through hybrid passive energy dissipation systems.

The brainstorming session was presided over by Dr. N. Anandavalli, Director, CSIR-SERC and Coordinating Director, CMC. She highlighted the challenges, opportunities and future directions in the development and application of energy dissipation systems and emphasised the need for continued research, innovation and collaboration to address emerging challenges in structural safety and seismic resilience.

The programme also provided an opportunity for scientists, research scholars and experts to exchange views and explore possible avenues for further research and technological development in the area of energy dissipation and structural control systems.

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