



**FERROCEMENT SOCIETY**



<sup>6th</sup> NATIONAL CONVENTION ON  
**FERROCEMENT**

**“PRECAST FERROCEMENT- FUTURE OF CONSTRUCTION INDUSTRY”**

**PUNE (Maharashtra), India, APRIL 8-10, 2021**

**(Opportunities for all Architects, Civil, Mechanical, Instrumentation and other Engineers)**

## **CALL FOR ABSTRACTS**

Ferrocement is a material of millennium and an avenue towards Green Technology. For precasting the building components ferrocement is one of the best technologies. This is the SIXTH convention on this subject organized by Ferrocement Society that is providing a forum for architects, civil engineers and working professionals across India to present and discuss the projects, research and developments in a broad spectrum regarding Precast Ferrocement – Future of construction industry.

**Abstracts are invited for this convention.** Once the abstract is accepted by the committee, full papers can be submitted in time. A power point presentation is required to be submitted along with the full paper. The detailed date schedule is given below the topics.

### **TOPICS**

Main Topics to be covered in the convention include, but are not limited to :

1. Precast components necessity, different shapes and ideas
2. Moulds and their types, techniques to design and produce moulds
3. Types of matrix- cement mortar, geomortar, polymer mortar, colgrout mortar, mortar without cement
4. Precasting techniques. Meshes cutting, bending, inserting, mortar filling, spraying mortars etc.
5. Designing precast buildings
6. Assembling of components
7. Water conservation, prefabricating water tanks and check dams, storage concepts and case studies
8. Various machines available for precast industry, conceptual machines, hand casting and precasting equipment
9. Stability of assembled buildings, tests, stress analysis
10. Hybrid or composite construction using ferrocement components
11. Mass housing using ferrocement, multi-storied buildings
12. Factory on wheels
13. Other precast applications using ferrocement

### Sub topics can be read as below:

1. **Precast products** of ferrocement, textile reinforced composites and mass scale applications in private as well as Government sector, including WRD, PWD, CPWD, MJP, MSRDC, Railways, Metro rails etc.
2. **Innovative applications:** Use for road pavements in place of prestressed concrete roads, ferroasphaltcrete for repairing potholes, precast ferrocement lost forms as structural members, precast panels for bunkers in war field, needle free K T weirs, parabolic gutters and canals, fire rating of ferrocement, thermally insulated houses, egg-shaped large size conduits for outfall sewers, plastic pipe out coated with ferrocement as penstock., three dimensioned ferrocement- meshcrete a substitute for prestressed concrete, spun ferrocement pipes replacing prestressed concrete pipes. Floating platforms, barges, Pontoons, Solar panel floats. walling and floor panels, large size panels for housing, silos, dams, retaining walls digesters etc
3. **Engineered housing-** mass scale housing with ferrocement precast panels, fabricate in factory cast at site technique- for single wall, double wall, walls and floors of houses, ribbed and stiffened precast panels with joints as structural members, cavity walls, hollow floors, beams and columns, factory production of precast units- factory layout production technique and its economics, Erection, jointing members, joints as beams and columns, etc
4. **Small ferrocement precast building components** like drainage chambers, covers, chajja and lintel units, fins and sun breakers, ferrocement solar collectors, tanks for various applications
5. **Factories:** Handling in factory, during transport, erection and structural design for them, machinery, factory layout, portable factory, Factory on wheels. At present meshes are tied by wires to frame. A stapler-type tier can be devised. Vibro-press type plate trowels will assure full penetration of mortar in meshes. For press-filling on large scale, impinging mortar under high air pressure can be thought of. A machine like brush- coater. For pipes spinning machines with modified end-rings. For vacuum casting of ferrocement plates, a system as used in manufacture of asbestos sheets. Long line casting method (as is done in core-slab manufacture) for manufacture of ribbed slabs. For vertical casting of ribbed slabs gang type moulds. Vibrating tables of large size to cast large size walling and floor panels. For handling, lifting and erecting simple machines.

### 6. DEADLINES AND IMPORTANT DATES

30 November 2020	Deadline for Submission of Abstracts
31 December 2020	Selection of abstracts to be informed.
31 January 2021	Deadline for Full paper submission
28 February 2021	Acceptance of paper to be informed.
8-10 April 2021	Convention proceedings

### CONVENTION VENUE

The convention will be at PUNE, INDIA. Pune is 180 km from Mumbai. Pune has international airport and is served by direct flights from various cities in India. OLA, UBER and other Taxi service is available. Participants can stay in hotels in Pune. Online participation is also being planned.

### AUTHORS TO REGISTER

All Authors must get registered for the convention. Registration is free for the sole authors. If the paper is jointly written, then the leading author will get exemption from registration fees. Remaining will have to register with fees. The registration forms, duly filled along with soft copy of a photo shall be sent by email or by post RPAD, after paying the fees in bank. Note that credit cards cannot be accepted for the payment of convention fees at the conference site. While submitting the full paper the authors will have to submit their registration forms.

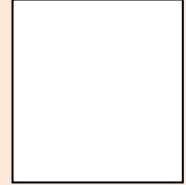
**Printed book of proceedings (having ISBN number) and a memento will be given to the registered authors.**



**FERROCEMENT SOCIETY**  
**Registration Form**  
(Can be downloaded from website)

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## CONVENTION CHAIR

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## CONVENTION ADVISORY COMMITTEE

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## CONVENTION SECRETARIATE

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### Important contacts

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