



FS-2023

7th NATIONAL CONVENTION ON
FERROCEMENT
“NEW HORIZONS IN FERROCEMENT”

PUNE (Maharashtra), India, November 24-26, 2023

(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 SEVENTH 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 New Horizons in Ferrocement.

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. Ferrocement components necessity, different shapes and ideas
2. Moulds for precasting and their types, techniques to design and produce moulds
3. Types of matrix- cement mortar, geo-polymer mortar, colgrout mortar, mortar without cement, various admixtures for the matrix
4. Construction techniques. Meshes cutting, bending, inserting, mortar filling, spraying mortars etc. Stamped concrete.
5. Designing ferrocement structures
6. New research projects, testings for ferrocement properties
7. Water conservation, prefabricating water tanks and check dams, storage concepts and case studies
8. Various machines available for testings, mechanisation, conceptual machines, hand casting and precasting equipment, welding, plastering.
9. Stability of buildings, tests, stress analysis, energy calculations
10. Hybrid or composite construction using ferrocement components
11. Mass housing using ferrocement, multi-storied buildings
12. Factory on wheels
13. Other innovative applications using ferrocement
14. Standardisation

Sub topics can be read as below:

1. **Applications** 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 Stamped concrete designs and types.
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, Standardisation of ferrocement.
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

31 July 2023	Deadline for Submission of Abstracts
05 August 2023	Selection of abstracts to be informed.
25 September 2023	Deadline for Full paper submission
30 September 2023	Acceptance of paper to be informed.
24-26 November 2023	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 and private guest houses in Pune.

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.

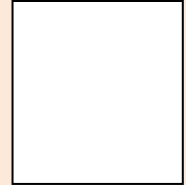
FERROCEMENT SOCIETY

FS-2023 Registration Form

(Can be downloaded from website)

PERSONAL DETAILS

(Please attach a soft copy of your photo)



Full Name-.....

Designation.....

Name of Firm/ company/ College/ Govt/ Organisation-
.....

Contact Address-.....

..... State..... Nation

Email

Mobile Number-.....

Birth date : (DD/MM/YYYY)

Educational Qualification

Professional experience and special achievements/ Professional memberships

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CONFERENCE FEES DETAILS

Category (Please tick)	Delegate	Leading Author	Life member of FS	Group	Technical partner	Student	Other
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CONVENTION CHAIR

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CONVENTION SECRETARIATE

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To,

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