



# FS-2019

## 5<sup>th</sup> NATIONAL CONVENTION ON INNOVATIONS IN FERROCEMENT “ACCEPTANCE IN CONSTRUCTION SECTOR”

Nashik (Maharashtra), India, November 7-9, 2019

Ferrocement is a material of millennium and an avenue towards Green Technology. This is the FIFTH 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 innovations in Ferrocement technology and its acceptance in construction sector in urban and rural area.

### TOPICS

Topics to be covered at the conference include, but are not limited to :

1. Men, Materials and Methods
  - Meshes in geopolymer mortars-stress-strain behavior in tension, their bond and crack behavior, Geopolymer mortars: mix design for different strengths, use of sea sand as aggregate and sea water for mixing, High strength cement mortars- their mix design, Increase in compressive strength of cement mortar due to mesh reinforcement, textile reinforced composites
  - Methods of casting: Comparative study of Pressfill, vibro-press, forcing mortar in meshes with mortar sprayer pressing mesh layers in mortars, pulltrusion method and pour-cast method of casting in moulds.
  - Training programs for technicians and entrepreneurs.
2. Use of fibres, plasticisers and other construction chemicals in Ferrocement and thin reinforced composites.
3. Design Methods-  
**Designs based on** a)equivalent area and stress method b)specific surface method c) crack control method, d) energy absorption method and e)strength through shape method.
  - Design tables for number of meshes for direct use in field,
  - Concept of ferrocement capsules for field applications.
  - Design of shaped structures, arch faced walls, paneled cavity walls, box-sectioned hollow floors, hollow beams and hollow columns, stiffened plates, lost formwork as structural members, joints of precast members as structural members.
  - Design for waterproofing and fire-resistance, water-tightness, shock and blast loading, ballistic loads , wind and earthquake loads.
4. Experimental execution of Ferrocement works.
5. Corrosion resistance property of Ferrocement.
6. Alternative sand types and their impact on properties & cost.
7. Waterproofing with ferrocement, ferrocement in coastal areas.
8. Field applications of Ferrocement (Applications and field studies based on typical properties of ferrocement like water-tightness, thin walled construction, high strength to weight ratio, form-free construction, adaptability to take any shape and size, ductility and high energy absorption capacity)
9. Repairs, rehabilitation and retrofitting by Ferrocement.
10. Standardization, codification of Ferrocement (suggestions for code to be drafted for “Ferrocement- material, method of construction and designs based on properties of ferrocement only”(and not treating it as an extended form of RCC)
11. Schedule of rates, Rate analyses of Ferrocement and thin reinforced composites.
12. Ferrocement in future.
13. Innovative concepts using ferrocement. (Innovative ideas and unconventional structures which are possible only in Ferrocement)
14. Technology transfer & engineering entrepreneurship.
15. Energy saving and carbon credit with Ferrocement.
16. Needs in Rural Area and application of ferrocement for villagers.

17. **Precast products** of ferrocement, textile reinforced composites and mass scale applications in private as well as Government sector, including WRD, PWD, CPWD, MJP, MSRDC, etc.
18. **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 pies replacing prestressed concrete pipes. Floating platforms, barges, Pontoons, Solar panel floats.
19. **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, factor production of precast units- factory layout production technique and its economics,
20. **Small ferrocement precast building components** like drainage chambers, covers, chajja and lintel units, fins and sun breakers, ferrocement solar collectors

### CONVENTION VENUE

The convention will be at Nashik, INDIA. Nashik is 180 km from Mumbai, it is on Central railway. Nashik is served by direct charter flights from various cities in India. Taxi service is available.

### CONVENTION FEES FOR REGISTRATION

The fee Structure and various concessions shall be as below. (Cost of Excursion tour is not included)

	Type of registration	Fees per delegate
1	Registration fees	INR 5000
2	For group registration, 5 or more delegates	INR 4500
3	For technical partners ( Maximum 10 delegates)	INR 4500
4	For Life members of FS	INR 2500
5	For students of Architecture/Engineering (I-card essential)	INR 1000

The registration fee must be paid directly to the “FERROCEMENT SOCIETY” by Demand draft, or cheque drawn on any bank payable at Pune. Fees can also be paid directly in the nearest branch of State Bank of India accounts of “Ferrocement Society” in cash also. The details of bank account are as below.

**Account Number-36815801782, IFSC Code SBIN0004618, Erandwane Branch, Pune.**

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.

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

### DEADLINES AND IMPORTANT DATES

30 June 2019	Submission of Abstracts
10 July 2019	Selection of abstracts to be informed.
31 July 2019	Full paper submission
31 August 2019	Acceptance of paper to be informed.
15 September 2019	Confirmation of registration will be issued
7 November 2019	Conference Registration, Reception and 1 <sup>st</sup> day proceedings
8 November 2019	2 <sup>nd</sup> day proceedings, Group discussions, Demo of water tank construction.
9 November 2019	Special workshop on design of ferrocement structures.
10 November 2019	Excursion tour - tourist spots in Nashik (Optional)

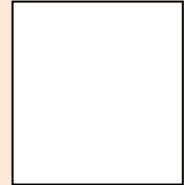
# FERROCEMENT SOCIETY

## FS-2019 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.....

Skype name..... Email .....

Mobile Number-.....

Birth date-.....

Educational Qualification

Professional experience and special achievements/ Professional memberships

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### CONFERENCE FEES DETAILS

**Category- Delegate/Leading Author/ Life member /Group /Tech. partner/Student**

Payment by Cheque/ DD/ Online cash / No. ....Date.....

Name of Bank.....Branch..... City.....

For Rs.....( for details see the brochure)

Date.....

Signature

**CONVENTION CHAIR**

**FERROCEMENT SOCIETY,**

Pune Office: 1030/1, Akashganga Society, Model Colony, **PUNE 411 016 INDIA**

**Phone: 020-25655380, 9422736252**

E-mail : ferrocement@gmail.com web : www.ferrocementindia.com

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**CONVENTION ADVISORY COMMITTEE**

- Dr. B. N. Divekar, Pune (9921480126)
  - Er. Chandra Mohan, Pune (982259479)
  - Er. P. C Sharma, Ghaziabad, UP (9810285722)
  - Er. Ulhas Paranjape, Mumbai (9820788061)
  - Dr. V. Sreevidya, Coimbatore, TN (9944263851)
  - Dr. Shoba Rajkumar, Salem, Tamil Nadu (9659789175)
  - Er. Milind Kulkarni, MKCE, Mumbai (9322280782)
  - Ms. Kiran Rajurkar, New Mumbai (9769070977)
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**CONVENTION SECRETARIATE**

**FERROCEMENT SOCIETY,**

Pune Office: 1030/1, Akashganga Society, Model Colony, **PUNE 411 016 INDIA**

**Nashik office : Dr Sunil Kute, K K Wagh College of Engineering, Nashik, INDIA**

E-mail : ferrocement@gmail.com web : www.ferrocementindia.com,

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**Important contacts**

<b>CONVENER</b>	DR. SUNIL KUTE	0253-2515264
Co-Convener	Chandramohan Hangekar	09822597479
Co-ordinator	Girish Sangle	09422736252
<b>Organising Secretary-</b>	Er Chandrashekhar Hangekar	09423008267

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**FERROCEMENT SOCIETY**

**From-  
FERROCEMENT SOCIETY,**

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<p>To,</p> <p>.....</p> <p>.....</p> <p>.....</p>
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