

**Innovative Materials, Machinery, Techniques &
Technology in Building Construction
Vigyan Bhawan, July 15 - 17, 2009**

Technical Session – I : Innovative Planning

1. Re-Engineering the Planning and Production of Social Housing
A.K. Jain
2. Proposed Revisions in IS: 1893 and IS: 13920 Codes
Dr. Ashok K. Jain & Dr. A.K. Mittal
3. Innovative Planning in Building Construction
Dr. M.R. Prakash
4. Fire Protection Design of a Shopping Mall
Satish Chitwar & Dr. P. Suryanarayana
5. Managing Innovations and New Technology
Lt. Col. L. Shri Harsha
6. Recent Advances in Computer – Aided Concrete Mix Design
Prabhat Kumar & Pradeep Kumar
7. Optimal Design of Structures
Patel Kiranben V
8. Planning and Development of Model Railway Colonies
J.S. Gupta
9. Comparative Assessment of Limited Continuity Approach and Composite Construction
Dr. P. Suryanarayana & Prakash Sangamnerkar
10. Criteria for Innovations
Ramakant Gupta

Technical Sessions – II & III Innovative Techniques & Technology

11. Green Buildings – Design and Construction
Dr. Prem C. Jain
12. Recent Advances in Resin Technology
Graham Morphett
13. Automation in Real Estate Construction is the Need of Hour
Sachin Jain & Suman Jain
14. Study on Thermo-Acoustically Efficient Combined Materials for Wall Section
G. Venkat Swamy, Neha Bhatnagar, B.M. Suman, R.L. Dhabal & R.K. Srivastava
15. Selection of Insulation System: For Comfort, Health and Energy Saving
Gurudev Singh & Kundan Singh
16. Appropriate Technology for Cost Effective Housing
Promod Adlakha & R.K. Gupta
17. Performance Measurement through Benchmarking in Construction Sector
Mamta R. Singh & Rajesh Kumar Singh
18. Shear Walls in High Rise Buildings
Nagarjuna P.
19. Gas Pressure Welding for Reinforcing - Bars
P.B. Vijay
20. Robotic Parking Garages – Innovative Technology
O.P. Gupta vsm, Vijay Gupta & Chandan Gupta
21. Utilisation of New Materials, Machinery and Techniques in Building Construction
J. Bhattacharjee
22. Admixtures in Concrete
Dr. K.K. Ganguly
23. 4 D Modeling and Virtual Prototyping in Construction
Lt. Col. S. Gopikrishnan & Seerat Kaur Sidana
24. Techniques and Technologies in Building Construction
Dr. Indrasen Singh
25. Earth Housing Architecture
Shubhangi Shirole

26. Environment Management System for Common Effluent Treatment Plant – Case Study
Dr. Ashok Dhariwal, Anamika Sharma & Anil Vyas
27. Use of Non-Conventional Mineral Admixture Blend in Concrete Structures
Dr. Hemant Sood, Dr. R.K. Khitoliya & S.S. Pathak
28. Non-Conventional Energy Applications in Railway Station Buildings
G. Satyalaxmi Naidu & A.D. Shirodkar
29. Strategy for Optimum Utilisation of Innovative Materials
Vijay K. Saluja
30. Waste Minimization in Construction Industry.
K. Srinivas

Technical – IV Innovative Materials

31. Innovative Building Material to Fight Recession in Construction Industry
Dr. A.K. Garg & Arun Pareek
32. Contemporary Materials : Glass and Aluminium Composite Panels
Dr. Oscar Concessao & Dr. Ponni Concessao
33. Polymer Concrete
Archana Bohra Gupta & Manumanish Gupta
34. Structural Behaviour of Standard Concrete with Normal and Blended Cements
Ashok K. Tiwari
35. Disaster Resistant New Technologies
Dr. Satyaki Sarkar
36. Innovative Techniques and Technologies Using Alternative Materials
Vivek Dixit & Aparna Dixit
37. Criteria for Selecting Glass in Buildings
Ashok Kumar & Dr. Rajesh Deoliya
38. Glass Fibre Reinforced Plastic in Building Construction
J.B. Kshirsagar & Pawan Kumar
39. Innovative Use of Materials – Towards Sustainability
Surinder Bahga & Sameer Rai
40. The Dome House – Using Polystyrene Material
P. Muralidhar
41. Bamboo – A Healthier Alternative
Namrata Sundrani & Shalini