

Conference Report

National Conference on ***Emerging Trends in Civil Engineering for Infrastructure Development (ETC-ID 2008)*** has been successfully organized by Department of Civil Engineering National Institute of Technology Raipur on February 15 – 16th 2008.

This conference has been inaugurated by Dr B. K. Sthapak, Vice-chancellor Chhattisgarh Swami Vivekanand Technical University Bhilai.

Inaugural Key Note address has been delivered by Er M. C. Gupta, Executive President Century Cements Baikunth (C.G.) on Use of Blended Cement for Concrete Structures.

The session-wise details of the conference are as follows:

TECHNICAL SESSION (I)

(Date: 15-02-2008, Time: 12:00 Noon to 2:00 PM, No of papers presented: 1+ 03)

Chairman: **Professor Dinesh Chandra**, Rtd. Professor and Head, G.E.C. Raipur.

Keynote Speaker: **Dr Anil Sharma**, M.A.N.I.T. Bhopal.
Urban Air Pollution and its Control.

Technical Papers:

1. **Optimal Use of Recycled Concrete with Respect to Performance and Cost of Structure.** By Petr Stemberk, Department of Concrete and Masonry Structures Faculty of Civil Engineering Czech Technical University
2. **Neural Network Model for the Cost Optimum Design of a Short Axially Loaded RCC Column.** By Kaustav Sarkar, M.K.Gupta, Associate Professor, Department of Civil Engineering, Bhilai Institute of Technology, Durg-491001.
3. **Characterization of Randomness in Total Deflection of Simply Supported Flanged RC Beams.** By Ravindra P. Patil, (Research Student) Prof. Dr. K. Manjunath, & M. C. E. Hassan, Civil Engineering Department M. C. E. Hassan, Karnataka.

TECHNICAL SESSION (II)

(Date: 15-02-2008, Time: 3:00 PM to 4:30 PM, No of papers: 1+ 03)

Chairman: **Er.Atul Shukla** (IFS), Chief Conservator of Forest Raipur

Keynote Speaker: **Er Pushpendra Laad**, Deputy General Manager, NTPC NewDelhi.
Business Process Automation in Engineering Design.

Technical Papers:

4. **Role of Rock Mass Classifications in site-characterization.** By P. Y. Dhekne, M. Pradhan and P. K. Dewangan, Deptt. of Mining Engg., National Institute of Technology Raipur.
5. **Effect of Mixing Stone Dust on Engineering Properties of Expansive Soils.** By Rakesh Kumar, Dr. Nitin Dindorkar and Satyvir Singh; Department of Civil Engineering, M.A. National Institute of Technology Bhopal.
6. **Prediction of Shear Strength Parameters of Remoulded Soil.** By Rakesh Kumar, Dr. P. K. Jain and Manish Gupta; Department of Civil Engineering, M.A. National Institute of Technology Bhopal.

TECHNICAL SESSION (III)

(Date: 15-02-2008, Time: 5:00 PM to 6:45 PM, No of papers: 07)

Chairman: **Prof. S. K. Kharia**, Professor and Head Civil Engineering N.I.T. Raipur

Keynote Speaker: **Er Prashant K. Joshi**, Senior Consultant, M/s Design Aids NewDelhi.
Public-Private-Partnership in Civil Engineering Infrastructure Projects.

Technical Papers:

7. **Early Entrance of Machinery on Cast Concrete Slab–Experimental Investigation and Modeling.** By Petr Stemberk, Department of Concrete and Masonry Structures Faculty of Civil Engineering Czech Technical University.
8. **Competitive study of flood frequency analysis of Bawanthadi Project by analytical and computer programming.** By S. R. Asati, A. M. Badar and Trupti Malikar, M.I.E.T. Gondia (M.S.)

9. **System-Design Approach for Urban Rain Water Harvesting and Ground Water Recharging.** By I. Ahmad, Dr M K Verma and Dr R. K Tripathi; Department of Civil Engineering, National Institute of Technology, Raipur.

SPECIAL TECHNICAL SESSION (IV)

(Date: 16-02-2008, Time: 8:30 AM to 10:00 AM, No of papers: 1)

Keynote Speaker: **Professor Tarun Kant**, Professor Indian Institute of Technology Mumbai.
Thermo-mechanics of polymer composite laminate

TECHNICAL SESSION (V)

(Date: 16-02-2008, Time: 10:30 AM to 12:30 AM, No of papers: 1+2)

Chairman: **Professor C. S. Pilewar**, Rtd. Professor, G.E.C. Raipur.
Keynote Speaker: **Er. Sandeep Dasgupta**, Regional Head Customer Service, ACC Ltd Kolkata,
Concrete Durability: Need of the Millennium.

10. **Constructed Wetlands cost effective solution for waste water treatment for rural Areas.** By Abhay Tiwari, Rashmi shah, Namita saxena, Department of Civil Engineering, Rustamji Institute of technology BSFAcademy, Tekanpur, Gwalior.
11. **Study of noise descriptors due to interrupted vehicular traffic flow.** By Dr. Dhananjay Prabat , Lecture Department of Civil Engineering, Government Polytechnic, Sadar, Nagpur (M.S.)

TECHNICAL SESSION (VI)

(Date: 16-02-2008, Time: 12:30 AM to 2:00 PM, No of papers: 1+03)

Chairman: **Er. S. S. Bajaj** (IFS), C.E.O. New Raipur Development Authority Raipur
Keynote Speaker: **Dr Narendra Samadhiya**, Professor Civil Engineering, I.I.T. Roorkee.
Support Pressures for a Powerhouse Cavern in Anisotropic Rockmass.

12. **System Identification and Structural Health Monitoring.** By Dr. U. K. Dewangan, National Institute of Technology, Raipur, C.G. and Dr S. V. Barai, I.I.T.Kharagpur.
13. **Mixed finite element formulation for analysis of FRPC laminate.** By Dr. G. D. Ramtekkar, National Institute of Technology, Raipur, C.G. and Dr. Y. M. Desai, I.I.T.Mumbai.
14. **Generalized Cost Saving: A Measure of Transport Improvement.** By Sudhanshu Sekhar Das, Assistant Professor, Department of Civil Engineering, Bhadrak Institute of Engineering & Technology and Bhargab Maitra, Associate Professor Department of Civil Engineering IIT Khargpur.

TECHNICAL SESSION (VII)

(Date 16-02-2008, Time 2.:45 PM to 4:45 PM, No of papers: 1+04)

Chairman: **Dr. S. K. Shukla**, Rtd. Professor, G.E.C. Raipur
Keynote Speaker: **Dr Yogendra Singh**, Department of Earthquake Engineering, I.I.T. Roorkee.
Modern Trends in Earthquake Resistant Design.

15. **Comparative compressive strength development of Ordinary Portland Cement and Portland Pozzolana Cement mortar mixtures with and without replacement of natural sand by fly ash.** By Dr.A. D. Pofale, Assistant Professor & Head Prof. S. V. Deo, Engineering Department, Visvesbaraya National Institute of Technology, Nagpur, Maharastra.
16. **Impact of GGBS on compressive strength and chloride permeability of concrete.** Dr P. K. Ghosh, S. K. Pandey and K.Sarkar, Prof., scholar, scholar, Bhilai Institute of Technology, Durg (C.G.).
17. **Applications and Limitations of NDT in Concrete Structures.** By Mrs. Shraddha Sharma, Department of Civil Engineering Bhilai Institute of Technology, Durg (C.G.).
18. **Need of Mathematics Laboratory in Engineering Curriculum with reference to Civil Engineering. Applications.** By Dr. S. K. Mahajan, Director, Angle valley Colloge of Architecture, Bhilai.

TECHNICAL SESSION (VII)

(Date 16-02-2008, Time 4:45 PM to 5:45 PM, No of papers : 1+01)

Chairman: **Er D. S. Paroha**, Superintending Engineer, Raipur Development Authority Raipur
Keynote Speaker: **Dr R. D. Garg**, Department of Civil Engineering, I.I.T. Roorkee

19. **Emerging Trends in Construction Technology (Trench less Technology).** By Mr. Kotwal S.S, Mr. Kadam V.S, Department of Civil Engineering, Bharati Vidyapeeths, College of Engineering, Kolhapur.

The conference certificates have been distributed by Dr Lakshman Chaturvedi, Vice-chancellor Pt. Ravishankar Shukla University Raipur. In his address Dr Lakshman Chaturvedi called upon the civil engineers to come forward and dedicate their sincere and honest efforts to build strong infrastructure base so that India can be transformed into a Developed Nation.