

JGS BARODA CHAPTER
C/o. Applied Mechanics Dept.
Faculty of Tech. & Engg.
M. S. University, Baroda.

TRAINING COURSE
ON
INSTRUMENTATION
FOR
IMPORTANT CIVIL ENGINEERING
STRUCTURES

(ICES - 99)

13, 14 AUGUST , 1999

Edited by

Dr. A. V. Shroff



Indian Geotechnical Society
Baroda Chapter,
C/o Applied Mech. Dept.,
M. S. University of Baroda,
Vadodara.



MSU Civil Engineering Alumni
Association (MSUCEAA)
Civil Engg. Dept.,
Faculty of Tech. & Engg.,
Vadodara.



A COURSE ON INSTRUMENTATION FOR IMPORTANT CIVIL ENGINEERING STRUCTURES (ICES - 99)



13 -14th August, 1999

Organised by IGS Baroda Chapter & MSU CEA

Course Director : Dr. A. V. Shroff, Prof. App. Mech. Dept. MSU

Venue Conference Hall, Narmada Guest House, RaceCourse, Vadodara.

PROGRAMME

FIRST DAY : 13th August, 1999

09 00 to 10 :00 a.m. Registration	Venue : Vasvik Auditorium, Inst.
10 00 to 10 .45 a.m. Inauguration	Engr Bldg. RaceCourse ,Vadodara
10:45 to 11.00 a.m. Tea	

Lecture Session I : 11: 00 a.m. to 01:00 p.m.

Venue: Conference Hall, Narmada Guest House, RaceCourse, Vadodara.

Chairman	Dr. N. M. Patel, Prof. & Head, Appl. Mech. Dept. MSU
Session Co-ordinator	Smt. V. M. Mankad A.R.O (GERI)
Lecture I	11:00 to 11:40 a.m.
Speaker	Dr. V.M. Sharma, ATES, New Delhi
Topic	Basic Data for Design - Instrumentation
Lecture II	11:40 to 12:20 p.m.
Speaker	Shri M. D. Nair, ATES, New Delhi
Topic	Instrumentation for verification of Design Data.
Lecture III	12:20 to 01:00 p.m.
Speaker	Dr. V. S. Chandrashekar, Prof., Civil IIT, Bombay
Topic	Centrifuge Modelling for Civil Engineering Structures (Prof. Piyush Parikh Memorial Lecture)

Lunch : 01:00 to 01:45 p.m.

Lecture session II - 01:45 to 03:45 p.m.

Chairman	Prof. R. D. Bhatt, Head, Civil Engg. Dept. , MSU
Session Co-ordinator	Mr. N. H. Joshi, Lecturer, App. Mech. Dept. MSU
Lecture-IV	01:45 to 02:25 p.m.
Speaker	Dr. C. R. Shah, Consulting Engineer, Vadodara
Topic	Instrumentation in Earth Dams: Planning, Insatallation, Observation and Analysis. (G. G. Dhanak Memorial Lecture)
Lecture-V	02:25 to 03:05 p.m.
Speaker	Dr. V. M. Sharma, ATES, New Delhi
Topic	Planning for Instrumentation for Bridges Slopes Land Slides & Underground Excavations
Lecture-VI	03:05 to 03:45 p.m.
Speaker	Shri V. K. Nanda, Director, Design, Bhakra Beas Dte.
Topic	Hydrometrological Instrumentation.

Tea : 03:45 to 04:00 p.m.

Lecture Session - III 04:00 to 06:00 p.m.

Chairman	Prof. R. M. Bhagia, App. Mech. Dept. MSU
Session Co-ordinator	Shri V. R. Stampwala, ARO, GERI
Lecture-VII	04:00 to 04:40 p.m.
Speaker	Shri V. K. Nanda, Director, Design, Bhakra Beas Dte.
Topic	Monitoring of Health of Bhakra Dam
Lecture- VIII	04:40 to 05:20 p.m.
Speaker	Shri A. R. Jani, Supt. Engg. (Retd.) CDO, Gandhinagar
Topic	Instrumentation in Gravity Dam
Lecture-IX	05:20 to 06:00 p.m.
Speaker	Shri P. V. Darji, Reader , Applied Mech. Dept. MSU
Topic	Central Artery / Tunnel Project of Boston USA : A Focus on Mitigation Programme w.r.t Instrumentation
07 30 p m	Cultural Programme Venue : Vasvik Auditorium
09 00 p m	Dinner Inst of Engrs, Race course

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SECOND DAY : 14TH August, 1999

Lecture Session -IV 09:00 to 10:30 a.m.

Chairman Dr. D. L. Shah, Prof. Appl. Mech Dept, MSU
Session Co-ordinator Shri J. M. Shah A.R.O GERI
Lecture - X 09.00 to 09.40 a.m.
Speaker Dr. A. K. Dhawan, Joint Director CSMRS, NewDelhi
Topic Instrumentation of Underground structures
Lecture - XI 09:40 to 10:20 a.m.
Speaker Dr. J. L. Jethwa, Scientist, CMRI, Nagpur
Topic Instrumentation for Performance Monitoring of Tunnels & Caverns-
Case Histories

Tea : 10:30 to 11:30 a.m.

Lecture Session - V 11:00 to 01:00 p.m.

Chairman Prof. P. N. Sutaria, Civil Engg MSU
Session Co-ordinator Shri A. R. Shah, Reader, Civil Engg MSU
Lecture- XII 11:00 to 11:40 a.m.
Speaker Dr. N. V. Naik, Vice President, Gammon India Ltd. Bombay
Topic Geotechnical Instrumentation for Deep Foundations - An Overview
Lecture - XIII 11:40 to 12:20 p.m.
Speaker Dr. S. R. Gandhi, Prof., Civil Engg, I I T, Madras
Topic Role of Instrumentation in Foundation Monitoring
Lecture - XIV 12:20 to 01:00 p.m.
Speaker Shri V. S. Brahmabhatt, Chief. Engr & Director, GERI,
(Presentation by Shri H. P. Pandya RO,SM, GERI)
Topic Need for Instrumentation w. r. t. Roads and Express Highways.

Lunch : 01:00 to 1:45 p.m.

Lecture Session -VI 01:45 to 03:45 p.m.

Chairman Prof. N. B. Parmar, Civil Engg. MSU
Session Co-ordinator Shri Pradip Gandhi, Consulting Engr, Vadodara.
Lecture - XV 01:45 to 02:25 p.m.
Speaker Shri P. K. Junjarwad, Former C.E, Gerusoppa dams
Topic Optimum Planning of Instrumentation in Concrete Dams
Lecture-XVI 02:25 to 03:05 p.m.
Speaker Shri G. L. Jawa, C.E. (Dam Design) S.S.N.L
Topic Instrumentation in Sardar Sarovar Project
Lecture - XVII 03:05 to 03:45 p.m.
Speaker Dr. U. D. Datir, Technical Member GPWCDAT, Ahmedabad
Topic Instrumentation, Data Collection & Analysis

Tea : 03:45 to 04:00 p.m.

Lecture Session -VII 04:00 to 06:00

Chairman Shri Vinay Brahmabhatt, Director & C.E GERI
Session Co-ordinator Shri P. D. Vyas, Reader, Civil Engg MSU
Lecture - XVIII 04:00 to 04.40 p.m.
Speaker Shri B. T. Rajmane, Chairman, BTR Pvt Ltd, Hugli
Topic (Formerly UNDP expert, Irrigation Projects, SriLanka)
Increasing Need for Instrumentation of Concrete Gravity
Dams & Embankment Dams for Design Data
Lecture - XIX 04.40 to 05.20 p.m.
Speaker Shri A. K. Shah, Reader, MSU
Topic Instrumentation in Diaphragm wall - Case Study
Lecture - XX 05:20 to 06:00 p.m.
Speaker Shri V. K. Nanda, Director, Design, Bhakra Beas Dte
Topic Spatial Deformations

Concluding Session : 06:00 to 06:30 p.m.

Farewell Tea : 06:30 p.m.