



## *e-Newsletter, Issue 13, May 2012*

*BC 96, Salt Lake, Kolkata 700 064, Email: <asce.is.email@gmail.com>*

### **Announcement**

**Your kind attention is drawn to ASCE's e-newsletter dated April 13, 2012 that was earlier circulated amongst all ASCE-IS members. Amongst other news, it featured the technical talk organized by ASCE-IS Eastern Region on Brick Sewer Rehabilitation project undertaken by the Kolkata Municipal Corporation.**

**A snapshot of the news, as it appeared in ASCE's e-newsletter, is given at the end of this e-Newsletter.**

**Members are strongly encouraged to contribute features and articles of important projects in India for possible publication in ASCE's e-newsletter.**

**It adds value to our Section if any event organized by ASCE-IS is featured in ASCE's e-newsletter which is circulated amongst all ASCE members globally.**

#### **1.0 Technical Talk Organized by ASCE-IS WR's Ahmedabad Center**

A technical lecture for ASCE-IS members and other construction professionals was organized by Dr. Urmil Dave of Ahmedabad Center of ASCE-IS Western Region along with UltraTech Cements, Ahmedabad on November 08, 2011.

The invited expert was Dr. Moray Newlands of Concrete Technology Unit, Division of Civil Engineering, University of Dundee, UK. After the welcome address and preliminaries, Dr. Moray delivered a talk on "Low Carbon Concrete: How Green is Green?". Dr. Moray Newlands in the talk covered various aspects of the concrete in terms of Durability, Performance, Sustainability and balancing Sustainability and Engineering performance. He also covered the research findings on above aspects conducted at Concrete technology lab, Dundee UK.

The Program was attended by more than 85 professionals from Ahmedabad. Senior Engineers from leading contracting and consulting firms and Government organizations were amongst the attendees.

The audience appreciated the lecture in terms of its applicability in the present construction scenario. The question-answer session also was long and interactive. The program concluded with a vote of thanks followed by dinner, giving the opportunity to the audience for closer interaction.

Dr. Dave thanked Mr. Arvind Shah, Regional President of ASCE-IS WR and other office bearers for their encouragement. He also expressed his gratitude to Mr Rohit Pandya of UltraTech Cements Ltd., Ahmedabad for his support.

#### **Dr. Moray with his Presentation**



## 2.0 ASCE-IS WR's Event at Ahmedabad

ASCE-IS Western Region organized a lecture on "Finite Element Method, Importance of Material Behavior and Applications" by Prof. Chandrakant Desai Ph.D. and Distinguished Member, ASCE on April 10, 2012 at Ambuja Knowledge Centre in Ahmedabad in association with Ambuja Cements Limited.

At the beginning of the programme, the speaker and all participants were welcomed. The participants were informed about the accolades and achievements of Prof. C S Desai during his distinguished career. Prof. Desai is a Regent's Professor (Emeritus), Department of Civil Engineering Mechanics, University of Arizona, Tucson, Arizona, U.S.A. During the period of December 26, 2011 to April 24, 2012, he worked as a Visiting Professor, Indian Institute of Technology, Gandhinagar, Ahmedabad. Prof. Desai is the recipient of a large number of international awards for outstanding contribution to engineering profession in a number of areas in civil and other engineering disciplines. He has authored 22 books and published 320 papers in various journals. He has guided more than 50 students for Ph.D. Eminent Structural Engineer Mr Yogesh Vani welcomed Prof. Desai by offering him a bouquet.

Prof. Desai in his lecture started with basic information about the finite element method, detailed information about material modelling and covered applications with examples in the various fields of engineering design. He emphasized that the finite element method originated from the need for solving complex elasticity and structural analysis problems in civil and aeronautical engineering. He emphasized that FEM is a technique for finding approximate solutions of partial differential equations as well as integral equations. During the

talk, he focused on use of FEM for analysis and design, construction, simulation of sequences of construction, maintenance behavior of materials like soils, rocks, concrete, metals and alloys, testing and modelling for realistic solutions by FEM; applications and predictions by FEM for problems involving static and dynamic (earthquake) loading such as pile foundations, reinforced earth retaining walls, underground cavities (tunnels) in Himalayas; seepage and stability analysis of dams and riverbanks, etc.

The lecture was continued for more than one hour and was followed by question-answer session. The audience took whole hearted participation in the session. The event was well attended by more than 50 Structural Consultants, Government Engineers, Academicians and Students including ASCE members from Ahmedabad and Gandhinagar region. Mr Umesh Soni, Ambuja Cements Ltd. thanked the speaker by offering him the memento. Prof. Urmil V Dave, Vice-President ASCE IS WR, Interim Executive Committee concluded the session with vote of thanks. Very encouraging feedback about the lecture was received from the participants during the high tea at the end.

### Dr. Desai speaking on the Occasion



## Membership Advancement

If you are currently an Affiliate or Associate Member of ASCE

ASCE-IS encourages you to upgrade your membership and become a full Member

Please contact us at [asce.is.email@gmail.com](mailto:asce.is.email@gmail.com) or [member@asce.org](mailto:member@asce.org) for guidance



**ASCE** AMERICAN SOCIETY OF CIVIL ENGINEERS

NEWS AND INFORMATION FROM ASCE

eNewsletter

APRIL 13, 2012

**ASCE-India delves into renovation of Kolkata's Victorian-age sewers**



The world's third oldest city sewerage system, some 136 years old, is undergoing an overhaul, and ASCE's India Section recently heard the chief engineer of the project give a technical talk about the undertaking. **Kolkata's vintage brick sewer mains** travel 113 miles, forming the backbone of the city's sewerage and drainage infrastructure. Beneath the streets of one of the world's most densely populated urban areas, Kolkata's Principal Chief Engineer N.B. Basu and his team developed and began an ongoing brick sewer rehabilitation program in 2006. In its first phase, more than 15 miles of sewer is undergoing de-silting and installation of glass reinforced plastic liner. Once complete, the estimated \$100 million project will benefit 2.2 million residents. **Read the interesting details** in ASCE India's recent newsletter (PDF).

---

**LIFELONG LEARNING**

**Webinar gives you the green light on traffic control devices**



**Is committed to reach out to its India Section Members**  
**In case you are not getting regular ASCE/ASCE-IS emails,**  
**Please send us your updated contact details**

Name \_\_\_\_\_

ASCE Membership No. \_\_\_\_\_

Current Mailing Address \_\_\_\_\_

\_\_\_\_\_

Email address \_\_\_\_\_

Phone No. \_\_\_\_\_

Please send your details by Email to [asce.is.email@gmail.com](mailto:asce.is.email@gmail.com) or [international@asce.org](mailto:international@asce.org) or

By post to "President, ASCE-IS, BC 96 Salt Lake City, Sector I, Kolkata 700 064"