



## e-Newsletter, Issue 14, June 2012

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### 1.0 ASCE-IS Western Region

Mr. Arvind Shah, Regional Director of ASCE-IS Western Region, is pleased to let the members know that Prof. Dr. Ravi Sinha, Secretary of ASCE-IS Western Region, was appointed Dean of Alumni and Corporate Relations of IIT Bombay in June 2012.

### 2.0 Inauguration of ASCE Student Chapter in Tirupati (AP), ASCE-IS SR

A student Chapter of American Society of Civil Engineers (ASCE) India Section was initiated in the Department of Civil Engineering at Sri Venkateswara University College of Engineering (SVUCE), Tirupati on 19th June 2012. The function started in a traditional manner by lighting of lamps by the dignitaries present. Rector of S V University, Prof. M A K Sukumar was the Chief Guest. He appealed to student body to make full use of ASCE student chapter activities. Prof. G.L. Sivakumar Babu, Regional President of ASCE-IS SR, explained the *vision of ASCE* and opportunities that students have by becoming members of ASCE. Prof. R. Krishna Reddy, F ASCE, Director of Geo-Environmental Engg., University of Illinois, Chicago, made a presentation on *Overview of Structural Foundations in Chicago* and explained how ASCE student bodies work in the USA. Principal and Vice Principal of SVUCE also addressed the students. Prof. K Nagendra Prasad,

#### Inaugural of Student Chapter at Sri Venkateswara University College of Engineering, Tirupati



Head of Civil Engg. Department put forth to the students the limitless possibilities and opportunities as members and offered complete support of the department for the activities. All the students and faculty of SVUCE showed excitement and extended their support to take forward the upcoming events of student chapter and expressed their willingness to take part in all activities.

### 3.0 Workshop on Best Practices in Sustainable Road Construction, ASCE-IS SR

Creation of infrastructure such as highway network requires huge investments as well as maintenance. Though assets have been created in India to some extent, it is important to create awareness among engineers and scientists about good practices in construction, innovative techniques and new techniques of rehabilitation. Recycling of bituminous pavement layers is a logical and practical way of conserving new materials for road construction. Similarly use of geosynthetic materials have proven to provide cost effective solutions and also extend the life of pavements. In recognition of the above, a workshop was arranged on *Best Practices in Sustainable Road Construction* on 22nd June 2012 in the Golden Jubilee Seminar Hall, Department of Civil Engineering, Indian Institute of Science, Bangalore. A number of delegates from the construction industry and academic institutions participated in the workshop.

Prof. A. Veeraragavan of Indian Institute of Technology, Madras presented a lecture on *recycling technique for rehabilitation of highway pavements*. The presentation highlighted the need and importance of recycling of pavement layers for the creation of sustainable road infrastructure in the country. The choice of the different methods of recycling and the consideration for selecting the right recycling alternative were highlighted. A case study on designing a pavement with recycled pavement layer materials was presented. A second case study from India on designing bituminous mixes with 85% reclaimed asphalt pavement layer material

was presented along with the cost economics and performance comparison with virgin mixes.

Prof. Rajib B. Mallick, Professor Worcester Polytechnic Institute, Worcester, MA, USA presented a lecture on *Recycling and Milling – why we need them?* In this lecture, current demands of aggregate and asphalt binder, and the availability of materials from reclaimed asphalt pavement were discussed. The benefits of milling and recycling were presented, and the use of foamed asphalt for cold recycling of asphalt pavements was discussed. Comparisons of costs and energy demands of conventional and recycling procedures were made, and principles and practices of hot mix recycling were presented. Finally, recommendations were made for the proper adoption of recycling and research for better understanding of recycling procedures and development of indigenous materials and technologies.

Prof. G L Sivakumar Babu presented a lecture on the *use of Geosynthetics in pavements*. In his lecture he explained the mechanisms of performance improvement in unpaved and paved roads when geosynthetic materials such as geotextiles, geogrids and geocells are used in the

pavement construction. He also presented some examples of pavement rehabilitation. A few case studies were also discussed.

Mr. Sanjay Bajaj, representative of Wirtgen India that produces and markets equipment for pavement material recycling and rehabilitation also gave a presentation. Mr. K P Pradeep, Secretary, ASCE-IS SR organized the interaction/discussion session and corporate presentations. The program was sponsored by UltraTech Cement Ltd, Bangalore.

**Prof. A Veeraragavan and Prof. Rajib Mallick, Shri K P Pradeep, Prof. K S Subbarao and others**



## 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**