International Conference on
Civil Engineering in the New Millennium: Opportunities and Challenges (CENeM-2007)
(11-14 January 2007)

Organized by
Department of Civil Engineering
Bengal Engineering and Science University
(Formerly Bengal Engineering College, Estd. 1856)

The University
Bengal Engineering and Science University, (formerly, Bengal Engineering College, Shibpur) is one of the premier Engineering Institutes in India. Established in 1856, it is the second Engineering Institute in the country. **Come 2006, and the University will complete 150 years of glorious service to the Nation.** Located in sylvan surroundings adjacent to the picturesque Indian Botanic Garden on the bank of the river Hooghly, it is only a few minutes’ drive via the Second Hooghly Bridge from the heart of Kolkata, the gateway to South East Asia.

The University has a beautiful lush green residential campus that accommodates the Academic and the Administrative Complex, Student Hostels, Swimming Pool, Gymnasium and Large Playgrounds along with Hospital, School, Guest House, Bank etc.

The University has regular UG, PG and PhD programmes in all major engineering disciplines. It also offers PG Programmes in Applied Sciences, Town and Regional Planning and Business Administration. Details can be obtained at **www.becs.ac.in**.
The Department

The erstwhile Bengal Engineering College started its journey as the Civil Engineering College. So, the year 2006 will also see the Department of Civil Engineering of this University completing its 150 years of glorious service to the nation. During this long journey, this pioneering Engineering Department achieved one milestone after another. In 1954, the Master of Engineering in Civil Engineering was introduced, for the first time in the country. At the same time, Doctoral programme was also introduced to enhance research activities of the Department.

The seed that sprouted 150 years ago is now a gigantic tree. It has produced a galaxy of eminent civil engineers who distinguished themselves in their profession all over the world and who contributed immensely in shaping the modern India after independence Today, the Civil Engineering Department provides excellent and modern infrastructural facilities for teaching, research and consultancy in all the major fields of specialization, including Environmental Engineering, Geotechnical Engineering, Structural Engineering, Transportation Engineering and Water Resources Engineering.

Conference Theme

The New Millennium presents unprecedented challenges and opportunities for the Civil Engineering profession. Housing an ever-increasing population, addressing decaying urban infrastructure, maintaining our environment, dealing with the effects of natural disasters and climatic changes, and transporting ever more people and goods in a safe and efficient manner. Addressing these challenges successfully will take a new kind of technology and a new kind of Civil Engineer.

To commemorate the 150 years of this premier engineering institution as well as of the mother engineering department, it would be befitting that on this momentous occasion in the history of the engineering education in the country, an international meet be held in this university to deliberate on the problems and prospects of Civil Engineering in the days to come. With this perspective, a four-day International Conference on Civil Engineering in the New Millennium: Opportunities and Challenges (CENeM-2007) will be organized during January 11-14, 2007, under the aegis of the Department of Civil Engineering of this University.

Sub-Themes

Following sub themes for the conference have been identified with a view to cover the major fields of specialization in Civil Engineering:

Civil Engineering Education

- Need and Responsibilities of Civil Engineers in the New Millennium
- Use of Information Technology in Teaching Civil Engineering Courses

Computing in Civil Engineering

- Computational Advances in Civil Engineering
- Artificial Neural Network Applications in Civil Engineering
- Advances in Software Development in Civil Engineering
- Application of Optimization Techniques in Civil Engineering

Construction in Civil Engineering

- New Construction materials and Innovative Techniques
- Construction in Hazardous Areas
Defects in Construction: Identification and Strengthening

Environmental Engineering
- Appropriate technology for water and wastewater treatment
- Hazardous Waste: Concern and Management
- Sustainable Environmental Management
- Recent Trends and Developments in Emission control
- Application of GIS in Pollution Management

Geotechnical Engineering
- Advances in Ground Improvement
- Environmental Geotechnique: Concern for Future
- Slope Stability and Landslides
- Risk Analysis in Geotechnical Engineering

Materials in Civil Engineering
- Smart Materials and Smart Structures
- Innovative Materials for Low-cost Housing
- New Pavement Materials
- Waste Containment Liner Materials

Natural Hazards and Mitigation
- Earthquake and Wind Damages: Assessment and Retrofitting
- Geotechnical Earthquake Engineering
- Flood Hazard Mitigation: Past Experience and New Approaches
- Tsunami: Lessons Learnt and Future Course of Actions
- Water-borne diseases in the Developing Countries: Assessment and Control

Structural Engineering
- Advances in Experimental Methods
- Use of Plates and Shells in Modern Structures
- Structural Dynamics, Impacts and Wave Propagation
- Structural Stability, Elastic Continuum, Nonlinear Mechanics
- Safety, Reliability and Stochastic Structural Mechanics
- Structural Health Monitoring, Retrofitting and Rehabilitation

Transportation Engineering
- Urban Traffic : Problems and Design Approaches
- Public Transportation : Planning and Design for Modal Integration
- Road Accidents: Analysis and Prevention
- Transportation System: Urban, Rural and Regional Transportation System, Logistics Management
- Pavement: Advanced Design, Construction and Maintenance

Water Resources Engineering
- Advances in Hydrologic Analysis and Design
- Computational Advances in Water Resources Systems Planning and Management
- Remote Sensing application in Irrigation Planning and Management
- Application of GIS in Water Resources Engineering
- Advances in Computational Hydraulics

Note: This sub-theme list is not exhaustive and papers on any other sub-theme appropriate to the main theme are also welcome.
Call for Abstracts

Abstracts within 300 words on the conference sub-themes must reach the organizers not later than December 31 2005. Abstracts should clearly indicate the purpose, results and conclusions of the work to be subsequently described in the full-length paper. Acceptance will be based upon review of the abstract by an expert panel of reviewers. Abstracts should be sent by e-mail to: seminar@civil.becs.ac.in.

Important Dates
Conference Date: 11-14 January 2007
Last Date of Submission of Abstract: December 31, 2005
Acceptance of Abstract: January 31, 2005

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- Sponsored: Rs. 6000
Delegates from Other Countries
- Individual: US $ 300
- Sponsored: US $ 500
Accompanying Person and Student
50% of the Delegate Fee

Early Bird Discount: 10%, if paid before August 2006

Registration Fee includes
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- Registration Kit
- Opening and Closing Ceremony
- Buffet Lunch on all days

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