

3rd October, 2015

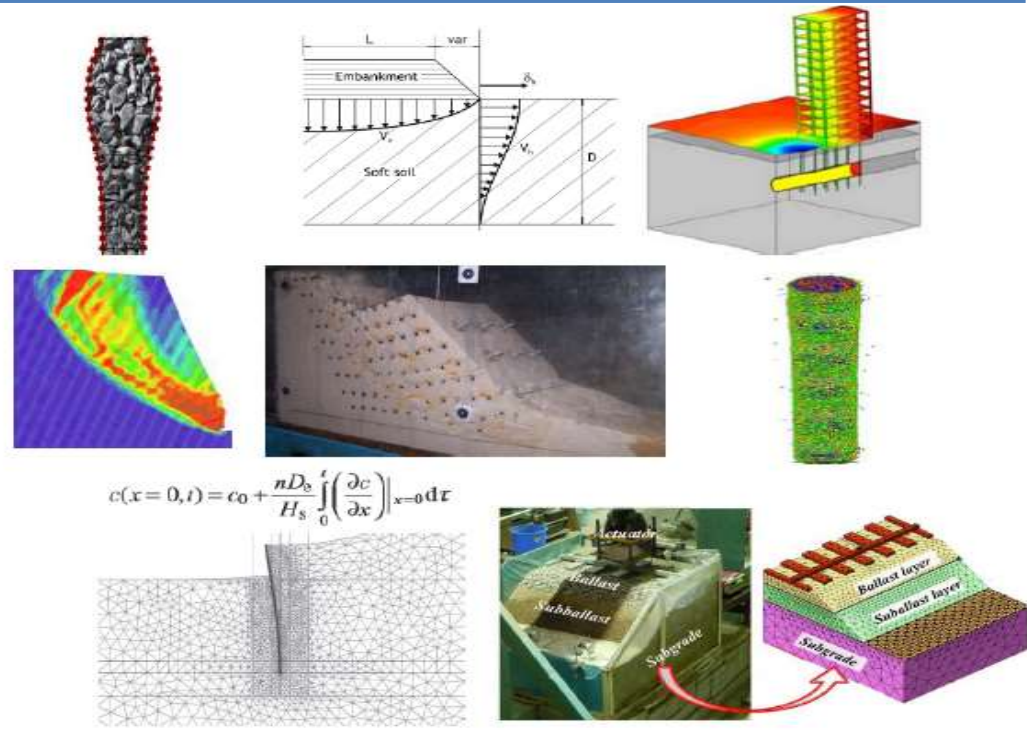
Indian Geotechnical Society TC-8 Workshop on Numerical and Physical Modelling

Resource Persons

Professor B. K. Maheshwari, *IIT Roorkee*
Dr. B. Munwar Basha, *IIT Hyderabad*
Professor K. Rajagopal, *IIT Madras*
Dr. Tadikonda V. Bharat, *IIT Guwahati*
Professor B.V.S. Viswanadham, *IIT Bombay*
Dr. Priti Maheshwari, *IIT Roorkee*
Professor J.T. Shahu, *IIT Delhi*

Schedule of events

Inauguration: 0900 hrs
Pre-Lunch session: 0930 – 1230 hrs
Post-Lunch session: 1315 – 1530 hrs
Tea break: 1530 – 1545 hrs
Panel discussion: 1545 – 1645 hrs
Concluding: 1645 – 1700 hrs



Indian Geotechnical Society-
Ludhiana Chapter

In association with

Department of Civil Engineering,
Guru Nanak Dev Engineering College,
Ludhiana (Punjab)

About the workshop

Indian Geotechnical Society (IGS) Delhi has taken up an important task at the national level to conduct brainstorming sessions on some key areas of contemporary interest in the field of geotechnical engineering and constituted different technical committees under expert groups to prepare the guidelines and future research areas that could be of immense use to the geotechnical community.

IGS-Ludhiana Chapter is entrusted with conduct the proceedings of the technical committee 'TC-8' and a brainstorming session to frame guidelines on different aspects of the 'Numerical and Physical Modelling'. The soil is a complex material formed by the weathering of rocks due to various geological processes. Depending on the type of rock and weathering process, different types of soils with a wide spectrum of diverse properties are formed.

Evaluation of its physical and engineering properties of soils is thus a very complex process and it plays an important part in the analysis and design of geotechnical engineering problems. With a growing need for better infrastructure, proper understanding of the nature of the ground and accurate estimation of soil properties are essential for the safe and economic design of structures. Concurrently, advancements in numerical and physical modelling demand more attention to the knowledge of soil behaviour under different conditions and the accuracy of the predicted results largely depend on the accuracy of the soil characterisation and modelling techniques. This workshop aims to understand various issues of evaluation of different soil parameters generally required in the numerical and physical modelling of a geotechnical problem.

About the Department

Civil Engineering Department has been *accredited* since 2004 by National Board of Accreditation (NBA) and also by NAAC. It is running three full time PG programmes (Structural Engg.; Geotechnical Engg.; Environmental Science and Engineering) and one part-time PG programme (Soil Mechanics and Foundation Engineering) along with UG programme in Civil Engineering in two shifts. The department has the state of art facilities for R&D activities. The Department is actively engaged in providing consultancy services to different government and private sector in and around Punjab with an annual turnover of approximately Rs one crore. Recently, Civil Engineering Department has been indentified and declared as **QIP Centre** for Ph.D by AICTE, New Delhi from the session 2011-2012 and is supported under **FIST** scheme of *DST, GOI* and **TEQIP-II** scheme of *GOI*.

Sponsorships

IGS Ludhiana Chapter invites industry, government agencies and other well wishers to sponsor the workshop. The names/logo of the sponsors will be displayed on the banners at the conference venue. All payments should be made by crossed cheque or DD in favour of IGS Ludhiana Chapter. Sponsorship categories include: Sponsor: Rs 25,000/- ; Co-sponsor: Rs 15,000/-

About the College

Guru Nanak Dev Engineering College has been recently declared as an **autonomous college** by the UGC. It was established in 1956 by the Nankana Sahib Education Trust, founded in memory of the most sacred temple of Nankana Sahib, birth place of Guru Nanak Dev Ji. The main mission for establishing the college was '*Removal of Economic Backwardness through Technology*'. To fulfil this commitment, a unique admission criterion was adopted by the trust by reserving 70% seats for students from the rural areas. At present, 07 UG and 13 PG courses are being offered in engineering. College also offers MBA and MCA courses at PG level. The college has been declared **QIP centre** for Ph.D. by AICTE in Civil Engineering, Mechanical Engineering and Electrical Engineering from the session 2011-2012.

Geographical Location:

Longitude: 75°51'39.49" N

Latitude: 30°51'38.54" E

About IGS-Ludhiana Chapter

Indian Geotechnical Society, New Delhi (IGS) has opened its 35th Chapter in Ludhiana with an aim to address the local civil engineering problems faced by the people of Punjab in general and geotechnical engineering problems in particular. It provides a platform to the engineers, scientists, industrialists and others who are actively associated with the geotechnical works to come together to interact, collect, synthesize and collate valuable information on the geotechnical engineering aspect of Civil Engineering for betterment of the community.

Dates and Venue

The workshop will be held at Guru Nanak Dev Engineering College, Ludhiana (Punjab) on **3rd October, 2015**.

Who Should Participate

- Design Engineers and professionals
- Research Funding and Professional Bodies
- Academicians, Researchers and Students

Accommodation

Limited accommodation is available in the College Guest House. Please note that the accommodation is not included in the registration fee and the delegates are responsible for their own accommodation.

Travelling to Ludhiana

Ludhiana is an industrial hub of Punjab, well known for the cycle and hosiery industry. It is well connected to the rest of India by Rail, Air and Road. The local climate during October will be pleasant with temperature ranging from 25°C to 35°C.

Nearest Railway Station: Ludhiana Junction.

Nearest Airports: Ludhiana; Chandigarh; Amritsar

Important Trains Halting at Ludhiana:

Shatabdi Express; Shalimar Express; Malwa Express; Amritsar Golden Temple Express; Pachim Express; Jhelam Express; New Delhi-Amritsar Express; Sachkhand Express; Dadar-Amritsar Express; Tata Hatia-Jammu Tawi Express.

Registration Fees

Prospective delegates may submit their registration form online through e-mail at the following address.

igs.ldh@gmail.com

The registration fee includes all refreshments, working lunch, teas / coffees, and a copy of the workshop proceeding CD. The fee structure is shown below:

IGS/IGS-LC members	Rs 1000/-
Non-IGS members	Rs 2000/-
Students	Rs 500/-

This fee can be paid by the way of Bank Draft payable at Ludhiana, in favour of *IGS-Ludhiana Chapter*, or in cash at spot on the day of registration.

**Indian Geotechnical Society TC-8 Workshop
on
Numerical and Physical Modelling**

(3rd October, 2015)

Registration form

Name: _____

Designation: _____

Affiliating Institute: _____

Contact Detail: _____ (M); _____ (P)

e-mail: _____

Membership of IGS/ IGS-LC (Yes/No): _____; LM No. _____

Registration fee:

Amount (Rs) _____/- (Cash/ DD/ Multicity Cheque)

DD/Cheque No. _____; Dated _____

Signature of applicant

Address for correspondence

Please send the registration form at
Harvinder Singh, Associate Professor
Department of Civil Engineering,
Guru Nanak Dev Engineering College,
Gill Park, Gill Road, Ludhiana-141006,
Punjab (INDIA).

Website: gndec.ac.in/~igs/ldh/

e-mail : igs.ldh@gmail.com;
hs@gndec.ac.in

Phone No.:+91-99148-00906

Organising Committee

Patron

Dr. M S Saini
Director,
Guru Nanak Dev Engineering College, Ludhiana

Advisors

Professor Harpal Singh
Professor H S Rai
Professor BS Walia
Professor Harjinder Singh
Department of Civil Engineering,
Guru Nanak Dev Engineering College, Ludhiana

Chairman

Professor J N Jha
Head of Civil Engineering Department,
Guru Nanak Dev Engineering College, Ludhiana

Co-chairmen

Dr K S Gill, Associate Professor
Department of Civil Engineering,
Guru Nanak Dev Engineering College, Ludhiana

Organising Team/convenors

Dr Jagbir Singh, Associate Professor
(Stage management)
Dr Harvinder Singh, Associate Professor
(Accounts and Registration)
Er Gurdeepak Singh, Associate Professor
(Venue management)
Er K S Bedi, Associate Professor
(Refreshment)

Er Puneetpal Singh, Assistant Professor
(Transportation)

Er Prashant Garg, Assistant Professor
(Accommodation)

Er Inderpreet Kaur, Assistant Professor
(Venue decoration)

Department of Civil Engineering,
Guru Nanak Dev Engineering College, Ludhiana

**Location Map of Ludhiana and
Famous tourist places.....**

Darbar Sahib, Amritsar; Rock Garden and Lake, Chandigarh;
Lodhi Fort, Ludhiana; Khalsa Heritage Complex Anandpur
Sahib; Jallianwala Bagh; Durgiana Temple; Wagha Border;

