



SRI VENKATESWARA COLLEGE OF ENGINEERING

(an Autonomous Institution affiliated to Anna University, Chennai)

Pennalur, Sriperumbudu Tk – 602 117

DEPARTMENT OF CIVIL ENGINEERING



Indian Concrete Institute

Report of the Webinar on “Forensic Structural Engineering”

Date : 23rd May 2020, Saturday

Time : 11.00 a.m. – 12.00 p.m.

Mode : Online through Cisco Webex

Meeting Link: Meeting URL: meetingsapac17.webex.com

Meeting number: 918 421 431

Speaker

Dr.Ranjith Dissanayake

Senior Professor

Department of Civil Engineering

University of Peradeniya

Sri Lanka

Convenor

Dr.R.Kumutha, Professor & Head/Civil Engg.

Target Audience : Students and Faculty members

Number of Participants benefited: 66

Students : 24

Faculty : 42 (Both Internal & External)

BROCHURE



SRI VENKATESWARA COLLEGE OF ENGINEERING

Sriperumbudur, Tamilnadu, India

DEPARTMENT OF CIVIL ENGINEERING

Cordially invites you for a Webinar on

Forensic Structural Engineering



Speaker

Prof. Ranjith Dissanayake

Senior Professor

Department of Civil Engineering

University of Peradeniya

Sri Lanka

Date : 23.05.2020 (Saturday) Time: 11 am to 12 pm

Meeting URL : meetingsapac17.webex.com

Meeting number: 918 421 431

Register @ <https://forms.gle/squQFkhcoYbonSEb6>

Host:

Dr.R.Kumutha

HoD/Civil

PROFILE OF THE SPEAKER



Professor Ranjith Dissanayake is a Senior Professor in Civil Engineering, University of Peradeniya. He is also the Secretary, State Ministry of Urban Development & Chairman, Green Building Council of Sri Lanka

Educational Qualification

1991 B.Sc (Hons) in Eng., University of Peradeniya, Sri Lanka

1995 Master of Engineering, Ehime University, Japan

1998 Doctor of Philosophy, Ehime University, Japan

Awards and Fellowships

Fulbright Scholar in USA 2008 , Endeavour Fellow in Australia 2007 , JASSO Research Fellow in Japan during 2008-2007, Young Scientist Award in 2007 for Excellence in Scientific Research, The Overseas Prize of the ICE in 2007, UK, The Australia Alumni Excellence Award in 2012.

- Published over 100 journal papers.
- Chaired over ten international conferences.
- Delivered 20 Keynote Addresses

Professional Qualification : Chartered Civil Engineer

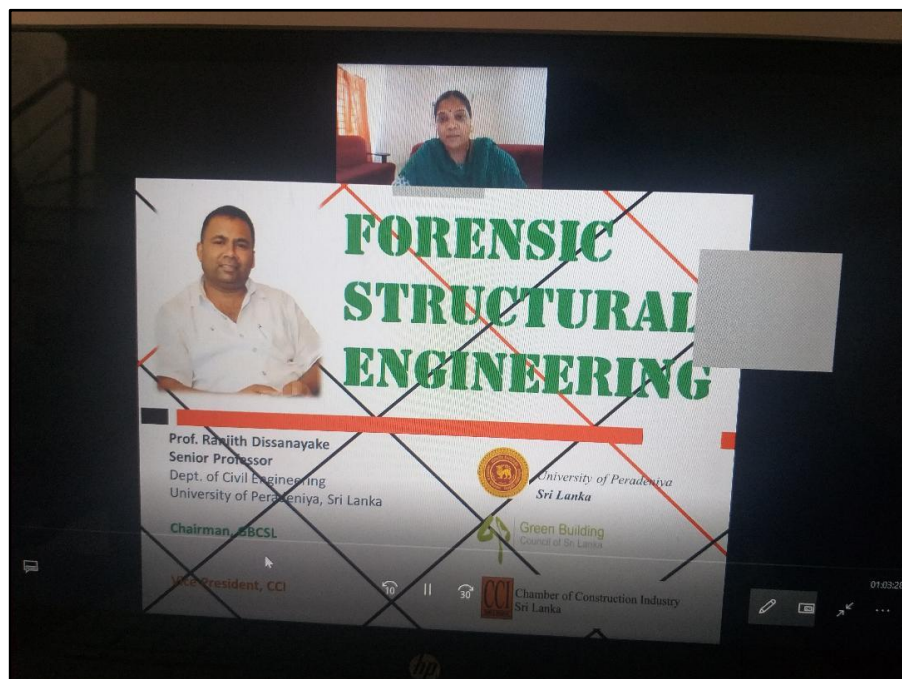
Memberships & Positions : Fellow, Institution of Engineers, Sri Lanka (IESL) , Member, the Society of Structural Engineers Sri Lanka (SSE), American Concrete Institute (ACI), Toastmasters-International , Member, Engineers Without Borders – International (EWBI) , Chairman, Civil Engineering Sectional Committee of IESL, Chairman (1) Lego International (Pvt.) Ltd, (2) ICB (Pvt.) Ltd, (3) Lanka AAC (Pvt.) Ltd. and (4) IPS (Pvt.) Ltd., VP, Chamber of Construction Industries in Sri Lanka (CCI)

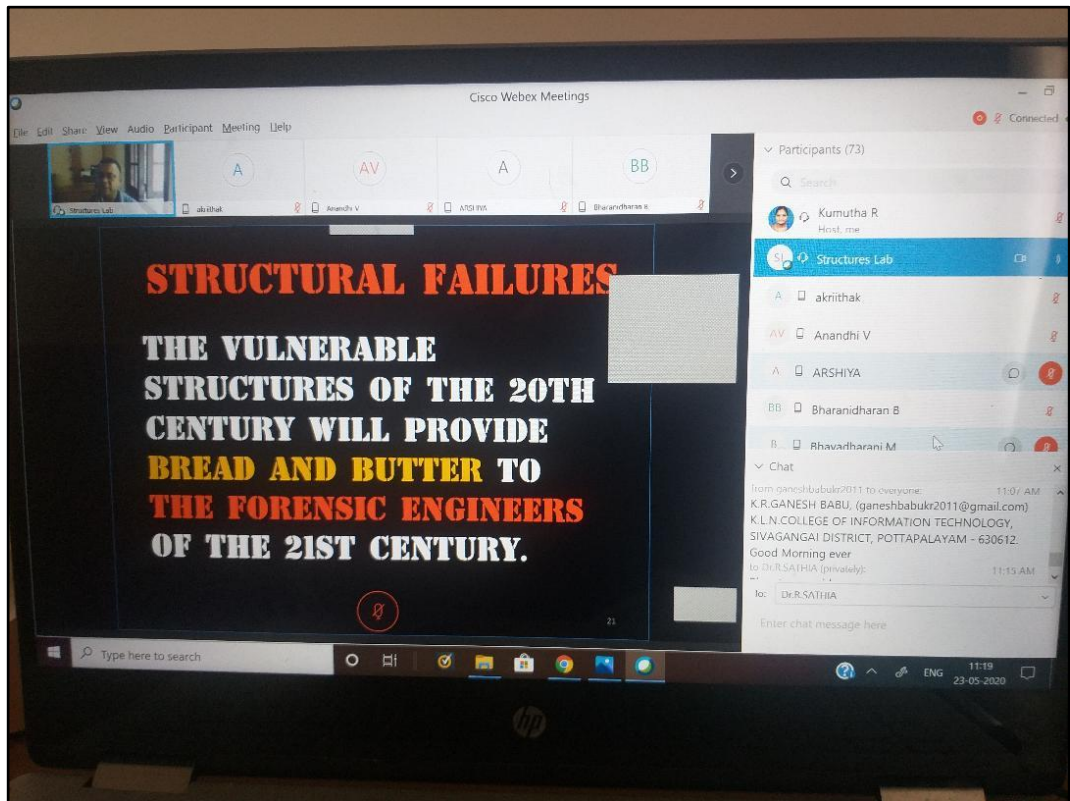
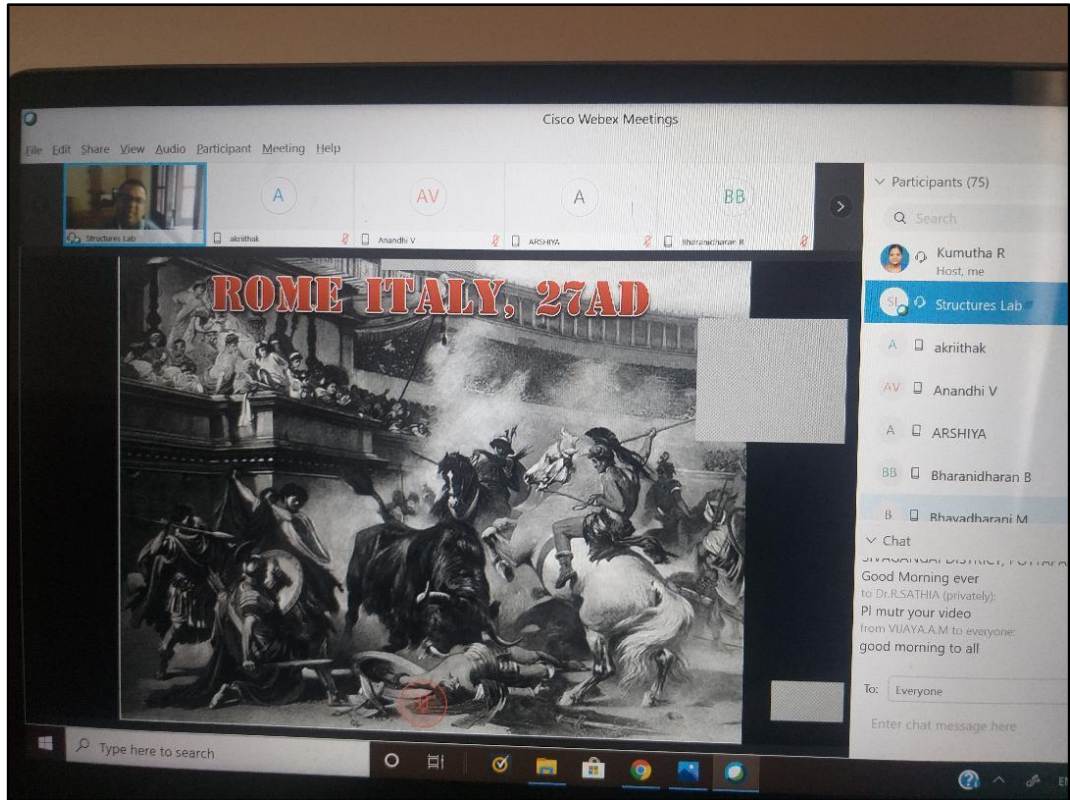
(

Brief Report of the Webinar

The webinar started with a welcome note and the introduction of the speaker to the Participants by Dr.R.Kumutha, Professor & Head/ Civil Engineering, who is the Convenor of this Program. Failure reasons of structures collapsed in the recent past (2017 and 2018) in Sri Lanka and around the world were discussed i.e. Pedestrian bridge collapse at Miami, USA on 17th March 2018, Building collapse at Grandpass, Colombo on 14th February 2018, Bridge collapse at Chirajara, Colombia on 16th January 2018. The main reasons for the collapses of these structures were discussed and they are negligence, improper design, incorrect construction practices, inadequate maintenance, improper alterations, bad materials and workmanship. Prof.Ranjith also highlighted the necessity of implementing proper engineering practices in order to save many lives of people and millions of money. Selected forensic investigations carried out in Sri Lanka were also discussed. One such investigation discussed is about the Investigation on Steel Bridge failure at Paragastota in 1999. Paragastota bridge is a steel truss bridge originally constructed in 1906 at Anuradhapura over Kala Oya. This bridge was brought to Paragastota in 1966 and a major repair was carried out in 1990. The bridge collapsed on 10th July 1999 when a truck carrying about 25 tons of metal was crossing the bridge. An investigation was carried out to find reasons for the failure that included visual observations, taking measurements, materials testing, finite element modelling and structural analysis. It was revealed that the failure was due to overloading of the bridge that triggered the yielding of bottom chord members, resulting large deformation with consequent fracture of diagonal members of the bridge. It was also found that the overloading is not only due to the truck but due to the reinforced concrete deck laid on the bridge replacing the original timber deck in 1990 without any structural design. Prof Ranjith explained that the failure could have been avoided if proper structural design had carried out prior to the laying of the reinforced concrete deck. The session ended with a vote of thanks delivered by Dr.R.Kumutha, Professor & Head/ Civil Engineering. The participants also had appreciated the webinar.

SNAPSHOTS OF THE WEBINAR





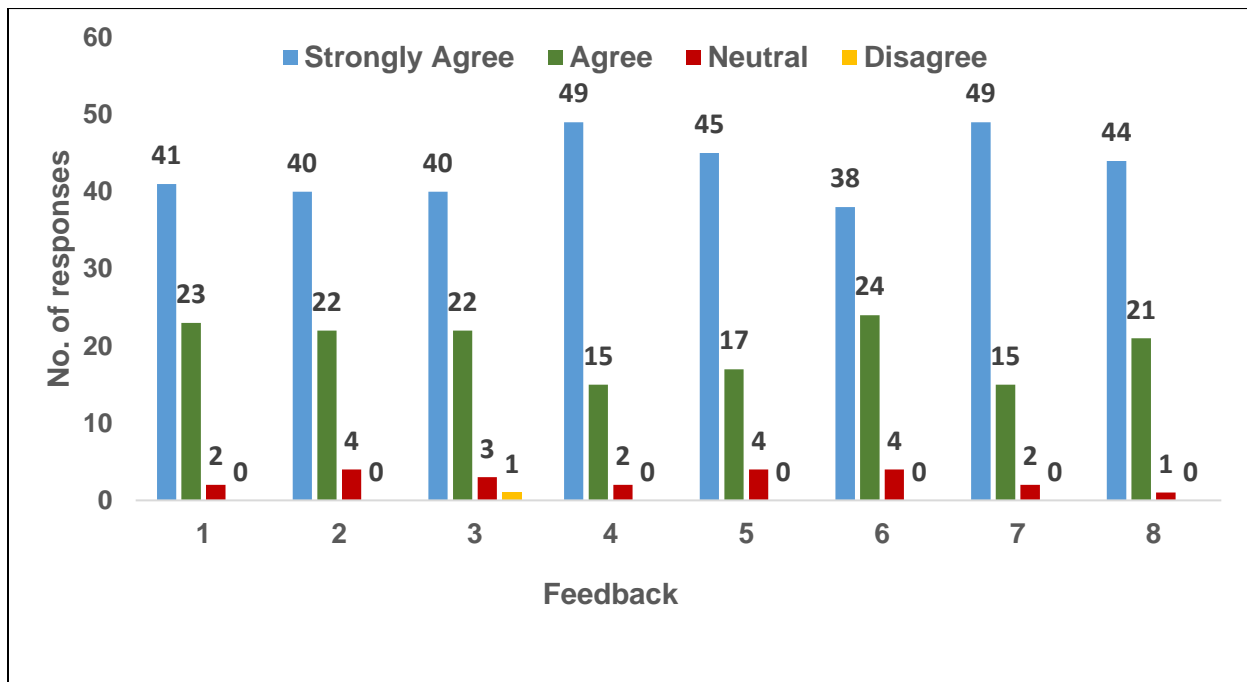
LIST OF PARTICIPANTS

S.No	Name of the Participant	Name of the Institution/Industry	Category
1.	Mamimdla Satish Goud	JYOTHISHMATHI INSTITUTE OF TECHNOLOGY AND SCIENCE	Faculty
2.	S.Selvakumar	Dhanalakshmi Srinivasan college of Engineering and Technology, chennai	Faculty
3.	Dr.K.Vijai	St.Joseph's College of Engineering	Faculty
4.	T Vijaya Raghavan	Peri Institute of technology	Faculty
5.	K.R.Ganesh Babu	K.L.N.College of Information Technology	Faculty
6.	Vijaya.A.M	K.L.N.College of Information Technology	Faculty
7.	Dr S Praveenkumar	PSG College of Technology	Faculty
8.	S. Swernalatha	St.Martin's Engineering College, Secunderabad	Faculty
9.	Diwahar Pari	Dhanalakshmi Srinivasan college of Engineering and Technology, chennai	Student
10.	Muthumari G	Mohamed sathak engineering college, kilakarai	Faculty
11.	Uddanti Deepthi	Institute Of Aeronautical Engineering College	Faculty
12.	A.Mega	Vivekanandha college of technology for women	Student
13.	Mariammal C	K.L.N.College of Information Technology	Faculty
14.	Dr.M.JACOB	K.L.N.College of Information Technology	Faculty
15.	Mohana N	SURYA GROUP OF INSTITUTIONS	Faculty
16.	Banuchandar J	Surya group of institutions	Faculty
17.	K.Vijaya Sundravel	K.S.RANGASAMY COLLEGE OF TECHNOLOGY	Faculty
18.	Dr.R.SATHIA	JERUSALEM COLLEGE OF ENGINEERING	Faculty
19.	Kavinarasi M	K.L.N.College Of Information Technology	Student
20.	B N Brinila Bright	Mohamed sathak AJ college of engineering	Faculty
21.	S.Jegadeeshan	Avs college of technology	Faculty
22.	Rizha Ur Rahman B	Mohamed Sathak AJ College of Engineering	Faculty
23.	Tharini K	SRM Valliammai Engineering College	Faculty
24.	Anandhi V	Sethu Institute of Technology	Faculty
25.	V.Hariharan	Sri Venkateswara College of Engineering	Student
26.	Mahalakshmi R	Surya group of institutions	Faculty
27.	Chayan Sardar	Sri Venkateswara College of Engineering	Student
28.	Ruby Freya	Sri Venkateswara College of Engineering	Faculty
29.	Mathiyazhagan R	Sri Venkateshwara College of Engineering	Faculty
30.	Basanth Babu K M	K.L.N.College of Information Technology	Faculty
31.	V Praveen Kumar	Sri Venkateswara College of Engineering	Student
32.	Vivedhitha Varshini A G	Sri Venkateswara College of Engineering	Student
33.	Ramanan.B.B	Sri Venkateswara College of Engineering	Student
34.	Logeshwari R	Sri Venkateswara College of Engineering	Student
35.	Richin John Charly	Sri Venkateswara College of Engineering	Student

S.No	Name of the Participant	Name of the Institution/Industry	Category
36.	Sathyanarayanan M	Velammal College of engineering and technology, Madurai	Faculty
37.	A.Jenisha	Sri Venkateswara College of Engineering	Student
38.	Gogula Chezhiyan.N	Sri Venkateswara College of Engineering	Student
39.	Brithisha S	Sri Venkateswara College of Engineering	Student
40.	Neha G	Sri Venkateswara College of Engineering	Student
41.	Akriitha K	Sri Venkateswara College of Engineering	Student
42.	Petchikkan M	PET ENGINEERING COLLEGE VALLIOOR	Faculty
43.	Ranjana Piriyaadharshini	Sri Venkateswara College of Engineering	Student
44.	G.Harshavarthani	Sri Venkateswara College of Engineering	Student
45.	Laleeth Kumar D	Sri Venkateswara College of Engineering	Student
46.	Hemalatha R	Sri Venkateswara College of Engineering	Student
47.	Ammaiappan M	Rajalakshmi Engineering College	Faculty
48.	M.Jemimah Carmichael	Vignan's Lara institute of Technology and Science	Faculty
49.	Gokul K	Sri Venkateswara College of Engineering	Student
50.	P.Kanaka	Kongunadu College of Engineering and Technology	Faculty
51.	Hariswaran S	Sri Venkateswara College of Engineering	Faculty
52.	K.Kavinmalar	Sri Venkateswara College of Engineering	Student
53.	Anumeena S U	Velammal College of Engineering and Technology, Madurai	Faculty
54.	Lokesh.S	P.S.V COLLEGE OF ENGINEERING AND TECHNOLOGY	Faculty
55.	Siddharth J U	Sri Venkateshwara College of Engineering	Student
56.	S. Sathya Priya	PERI INSTITUTE OF TECHNOLOGY	Student
57.	M.Jenani	Sri Venkateswara College of Engineering	Student
58.	G.Ramachandran	VIVEKANANDA COLLEGE OF TECHNOLOGY FOR WOMEN	Faculty
59.	Diravia Balan S	Sri Venkateshwara College of Engineering	Faculty
60.	Kiran Kumar Pon	Sri Venkateswara College of Engineering	Faculty
61.	Arshiya.A.S	Sri Venkateswara College of Engineering	Student
62.	Shanmugasundaram R	PSNA College of Engineering and Technology	Faculty
63.	K Dhivya	Sethu Institute of Technology	Faculty

SUMMARY OF FEEDBACK

Total Number of respondents: 66				
Feedback statement	Strongly Agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive	41	23	2	-
The subject matter was presented effectively	40	22	4	-
The pace and duration of the webinar was satisfactory	40	22	3	1
The resource person is knowledgeable	49	15	2	-
The resource person presented the information in a clear and logical manner	45	17	4	-
Sufficient time was given for interaction	38	24	4	-
The webinar was well organized	49	15	2	-
As a result of this webinar, I gained new knowledge	44	21	1	-



Additional comments/feedback from participants:

- Very good session
- Very Informative Lecture
- New topic and very useful for us. Thank you for such a wonderful opportunity and expecting more similar webinar in future. Thank you.
- Kindly arrange five days FDP
- Excellent presentation
- Need much more webinars related to civil department
- Concept were understood clearly
- Gained a new knowledge of Forensic Structural Engineering
- Need more such webinars on concrete technology or underground concreting
- Program was conducted in well organised manner. Need such Program like this in coming days. Guest Speaker is very good in technical.



Prepared By

Dr.R.Kumutha(HoD /Civil Engg.)

Convenor