



LECTURE SERIES ON

# CABLE STAYED BRIDGES

05 September till 17 October 2020, Every Saturday & Wednesday  
From 16:00 Hours to 18:30 Hours (IST)

**Recorded series of 30 Lectures by Prof. Holger Svensson**  
(All lectures will be followed by a Panel Discussion by Experts)

## Presenter



**Prof. Dipl. –Ing. Holger Svensson**  
*PE, CEng, FStructE*  
*Author, “Cable Stayed Bridges”:  
40 years of experience Worldwide*

## Moderator



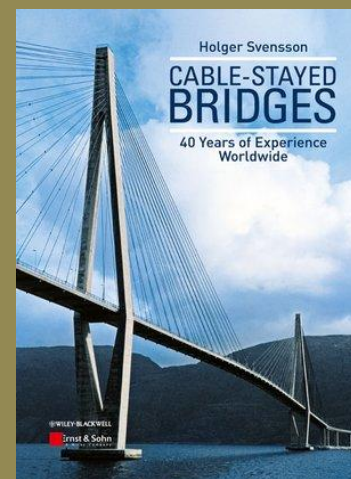
**Dr. Harshavardhan Subbarao**  
*GC member IAStructE &  
CMD, Construma Consultancy*

## About the Presenter

Born 1945 near Hamburg, Germany  
1969 Dipl.-Ing., Stuttgart University 2009–2011 Lecturer and since 2012 Professor for cable stayed bridges at the University of Dresden, Germany  
1970–1971 Contractor Grinaker in South Africa and Botswana  
1972–2009 Leonhardt, Andrä and Partners, Consulting Engineers Design and checking of major, mainly cable-stayed bridges  
1992–2009 Executive Director  
1998–2008 Speaker of the Executive Board  
2009 Chairman of the Board  
Since 2010 Independent Consulting Engineer

Holger Svensson has extensive experience in the design, construction engineering and on-site supervision of cable-stayed and other long-span bridges all over the world. In Germany he was involved in the checking of the Kocher Valley Bridge and the detailed design of the cable-stayed Flehe Bridge. In the USA he designed several cable-stayed bridges: Pasco Kennewick (concrete), East Huntington (concrete), Sunshine Skyway (composite alternate), Burlington (composite) and the Houston Ship Channel Crossing at Baytown (composite). In Norway he was in charge of the design for the Helgeland Bridge and in Scotland he advised on the design of the Leven River Bridge, both concrete cable-stayed bridges. In Sweden he was checking engineer for the HögaKusten suspension bridge (main span 1210 m) and the Sunningesund and Ume Älv composite cable-stayed bridges. In Australia he advised on the design of the cable-stayed Glebe Island concrete bridge in Sidney and on the My Tuan Bridge in Vietnam for AusAID. For the Asian Development Bank he reviewed the design and construction of the record-breaking cable-stayed composite Yang Pu Bridge (main span 602 m) in Shanghai, China. In Hong Kong he advised on the design and construction of the Kap Shui Mun Bridge to Lantau Airport. He was also responsible for the design of several major girder and arch bridges in Germany and elsewhere.

A book by  
Prof. Dipl. –Ing. Holger Svensson



Indian Association of Structural Engineers



## About the course:

Cable Stayed Bridges are beautiful and many a time awe inspiring and iconic structures. They are increasingly being used to span upto very long spans on rivers, in urban and non-urban settings, rolling or mountainous terrain, and marine crossings. In India there are quite a few which are completed/under construction/just being tendered. Although India has one of the most technologically advanced Cable stayed bridges- Signature Bridge, New Delhi, there is no Indian code or guideline for their design and construction.

**For the first time in S.E. Asia, IAstructE is conducting a comprehensive course covering all types of cable stayed bridges.** The 30 lectures cover planning, conceptual design and aesthetics, detailed design, construction, and special features related to topics such as wind induced phenomenon, cables and anchorages- vibrations, testing; and also design and construction of tall pylons and relatively slender decks, wind tunnel testing etc.

With exclusive permission from the Author of the book and based upon a series of lectures developed and recorded by him, the course will be moderated and have expert panelists with domain knowledge for each particular set of lectures. This **Unique Course** will also serve the function of a workshop with panel discussions and Q&A sessions following each lecture.

Practicing bridge engineers, academician, researchers, students and engineers of the various authorities involved with bridges will be hugely benefitted from this course.

**Register early to avoid disappointment.**

Lecture no.	Date of Lecture	Title of the Lecture
1	05.09.20	INTRODUCTION TO CABLE STAYED BRIDGES
2		THE PRECURSORS OF CABLE-STAYED BRIDGES
3	09.09.20	STEEL CABLE STAYED BRIDGES
4		CONCRETE CABLE STAYED BRIDGES
5	12.09.20	COMPOSITE CABLE STAYED BRIDGES
6		SPECIAL SYSTEMS OF CABLE STAYED BRIDGES
7 & 8	16.09.20	STAY CABLES
9 & 10	19.09.20	ACTION FORCES FOR SUB-SYSTEMS & ACTUAL SYSTEMS
11 & 12	23.09.20	PRELIMINARY DESIGN OF CABLE STAYED BRIDGES
13 & 14	26.09.20	CABLE DYNAMICS
15 & 16	30.09.20	BRIDGE DYNAMICS
17 & 18	03.10.20	EXAMPLES OF CONSTRUCTION OF CABLE STAYED BRIDGES
19 & 20	07.10.20	CONSTRUCTION ENGINEERING
21 & 22	10.10.20	CABLE INSTALLATION
23 to 27	14.10.20	EXAMPLES OF CABLE STAYED BRIDGE CONSTRUCTION WITH VARIOUS DECK TYPES
28		ON PROTECTION OF BRIDGE AGAINST SHIP COLLISION
29	17.10.20	AESTHETIC GUIDELINES FOR CABLE STAYED BRIDGES
30		PERSONAL EXPERIENCE WITH CABLE STAYED BRIDGES

### REGISTRATION FEE

IAstructE Members	: Rs 2400/- + 18% GST
Non Members	: Rs 3000/- + 18% GST
IAstructE Student members	: Rs 750/- + 18% GST
Students (non member)	: Rs 1500/- + 18% GST

*(E-certificate of participation will be provided)*

### SPONSORSHIP OPTION *(GST payable on reverse charge)*

ENTITLEMENTS	DIAMOND SPONSOR ( INR 3,00,000)
Recorded Presentation Slot (in between two lectures every day)	5 mins.
Advertisement in SED (an official publication of IAstructE published as soft copy)	One Colour Page
Logo in Poster & all related correspondence	
Company Profile to all delegates	

### HOW TO REGISTER

**STEP 1 :** Registration fee shall be paid through NEFT/RTGS/UPI as per bank details given below :

Beneficiary Name: Indian Association of Structural Engineers Account Number: 10151200388,

MICR: 110002034 ; IFSC:SBIN0007196

Bank Name: State Bank of India;

Branch Address: Flyover Market, Defence Colony, ND 110024

Branch Code: 07196

**STEP 2:** After making the payment the proof of the payment shall be sent to [iastructe@gmail.com](mailto:iastructe@gmail.com) to obtain the Registration Link for Webinar. Students must send their valid ID card (scanned) along with proof of payment.

**For any clarification on the above steps, please contact the IAstructE Secretariat on**  
Email [iastructe@gmail.com](mailto:iastructe@gmail.com), Tel 011-45794829