

SEMINARIO

Speaker: Professor Ekkehard Ramm

Department of Civil Engineering, *University of Stuttgart, Germany*
Gauss-Newton Medal of the International Assoc. on Computational Mechanics (2008).

Fecha y hora: 27 de noviembre 2008 a las 12:45 h. (café desde 12:30).

Lugar: Sala Verde, 1ª Planta, E.T.S.I. Caminos, Canales y Puertos,
C/Profesor Aranguren, Univ. Politécnica Madrid, Ciudad Universitaria.

The Golden Gate - Bridge in San Francisco - From the Beginning till Today

The Golden Gate Bridge is not only an excellent example for an outstanding engineering structure it also has a very lively history up to the present day. The lecture describes the development of the bridge from the first ideas around 1870, the first conceptual designs in the 1920ies up to the difficult carrying through process in the following years and the final design in 1930. During this time the role of chief engineer Joseph B. Strauss not always undisputed was very important. The construction and manufacturing from 1933 to 1937 of the suspension bridge being for a long time the largest bridge in the world will be described in detail. This part of the talk will be followed by a description of the almost 70 years' history of the bridge. In particular the response to wind and earthquake excitation and related retrofitting measures to strengthen the bridge are stressed.

The presentation does not deal with technical details. It rather addresses an audience which has a general interest in one of the most exciting structures in the world.



Brief CV of Ekkehard Ramm

Ekkehard Ramm is internationally recognized for his contributions in the broad area of structural mechanics, such as non-linear analyses of thin-walled structures, finite element technology, structural optimisation, material modelling, multi-scale problems, contact mechanics and fluid-structure interaction. He has been awarded honorary doctorates from several universities and is elected member of different Academies of Sciences, among them the German Academy of Technical Sciences (acatech), the Academia Europaea, the Austrian Academy of Sciences and the US National Academy of Engineering.

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