

Fédération internationale du béton International Federation for Structural Concrete



About the *fib*



Photo ©Loic Gardiol

Harald S. Müller, Prof. Dr.-Ing.
President of the *fib*

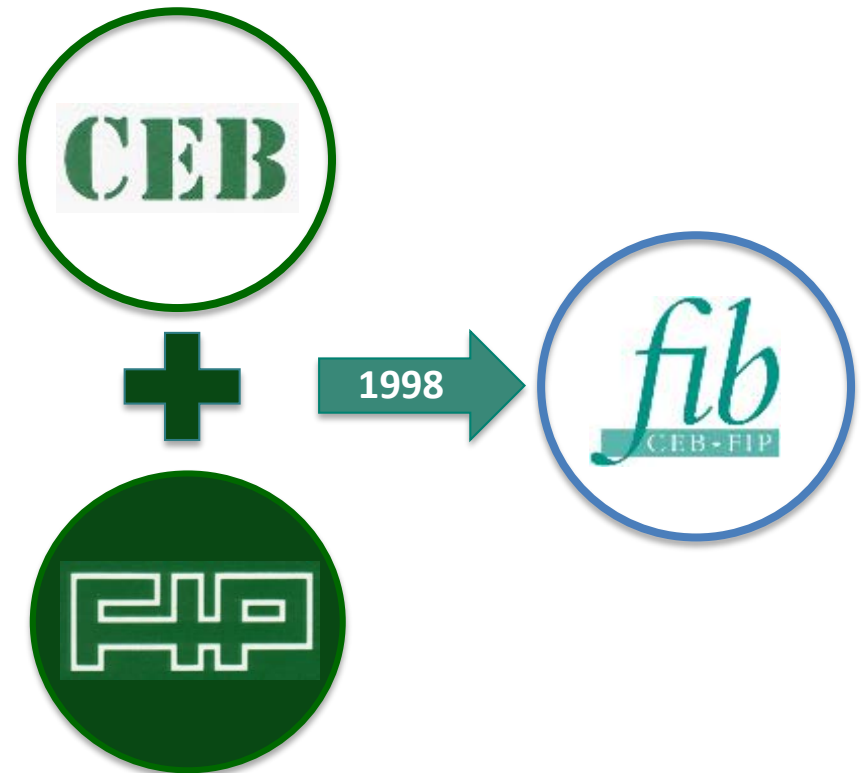
Udo Wiens, Dr.-Ing. and Frank Dehn, Prof. Dr.-Ing.
German *fib*-Delegation, Member of Presidium

Creation of the *fib*

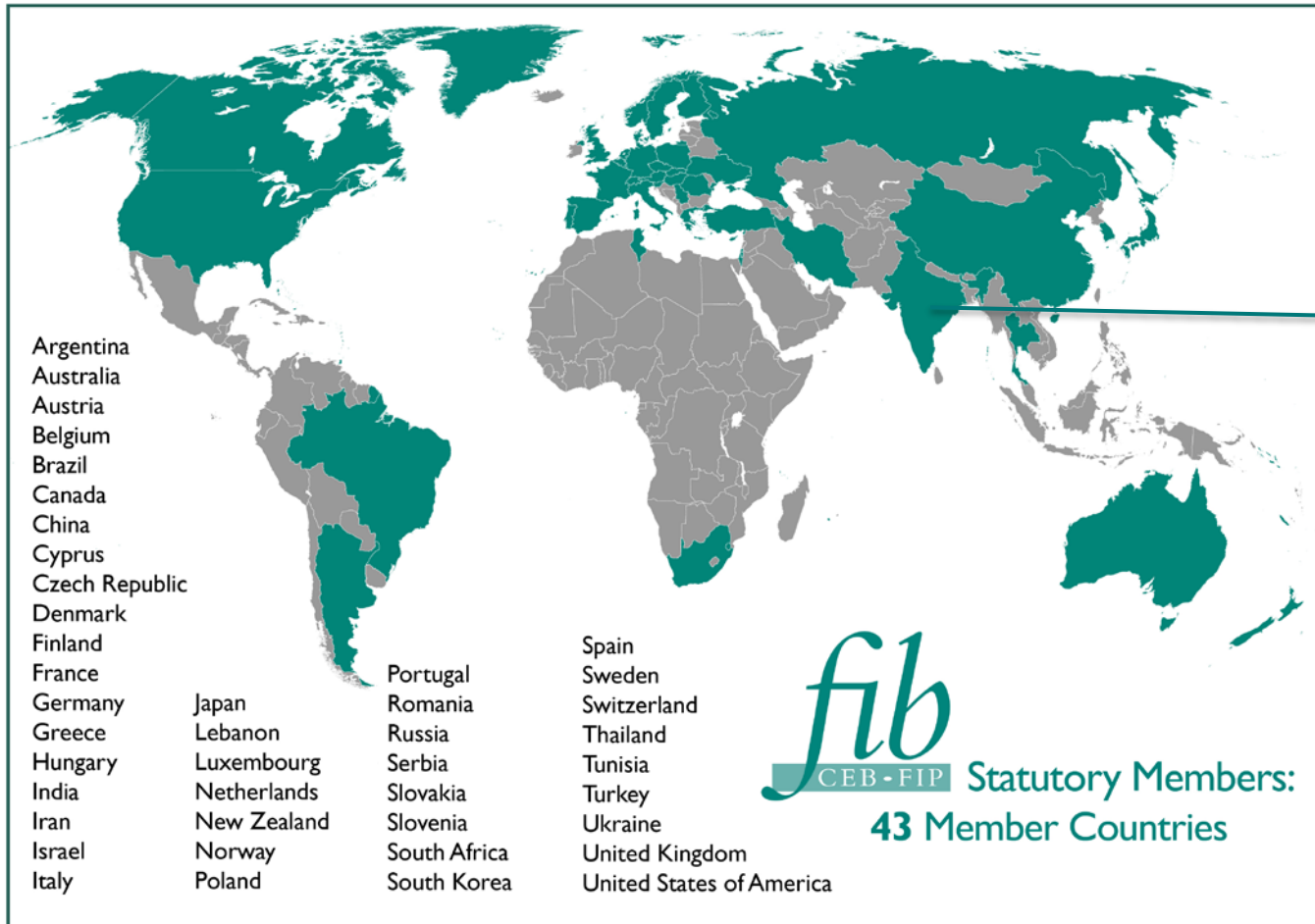


Euro-International Committee for Concrete
Comité Euro-internationale du Béton
1953

International Federation for Pre-stressing
Fédération Internationale de la Précontrainte
1952



2015 Statutory member countries



**India is a
member country**

**ICI and IEI
are statutory
member organ-
izations in fib**

Objectives of the *fib*



“To develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction.”

Statutes of the fib

Ziele des DAfStb

„...ein seit über 100 Jahren national und international anerkanntes und angesehenes technisch-wissenschaftliches Fachgremium zur Förderung des Betonbaus als sichere, dauerhafte, wirtschaftliche und umweltfreundliche Bauart. Der DAfStb bildet die Plattform, auf der die wesentlichen Aktivitäten des Beton- und Stahlbetonbaus im Bereich der Forschung sowie der Regelung zusammenlaufen.“

Satzung des DAfStb

Mission and objectives

To advance the technical, economic, aesthetic and environmental performance of concrete construction by:

- stimulation of research and synthesis of findings,
- transfer into design and construction practice,
- dissemination by publications, congresses, courses, etc.,
- production of recommendations, guidance documents, etc.,
- informing members through relevant publications.



Areas of activities and commissions

Planning & execution

COM1
Concrete structures

COM2
Analysis & design

COM3
Existing concrete structures

Materials & production

COM4
Concrete & concrete technology

COM5
Reinforcements

COM6
Prefabrication

Sustainability & Durability

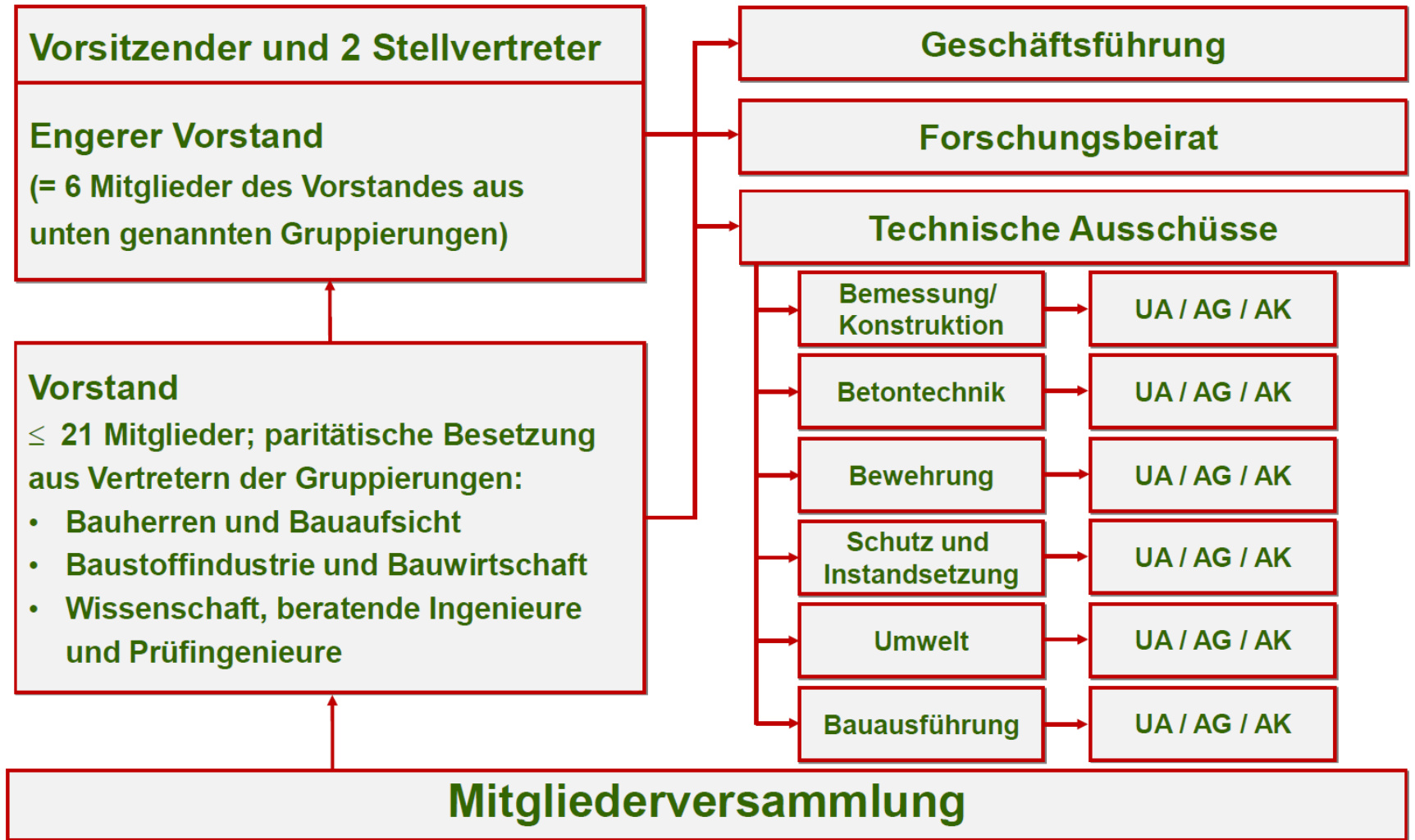
COM7
Sustainability

COM8
Durability

Education & publications

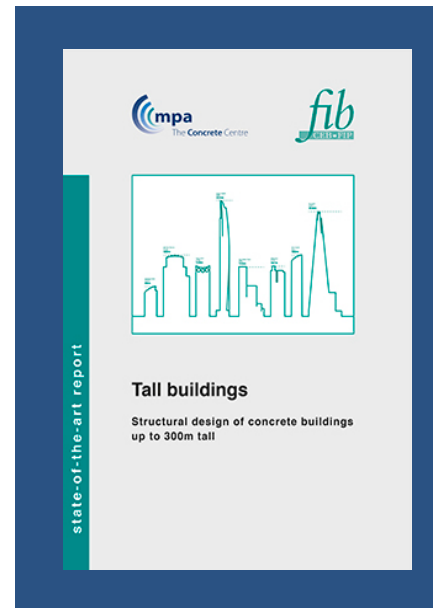
COM9
Dissemination of knowledge

Organigramm des DAfStb

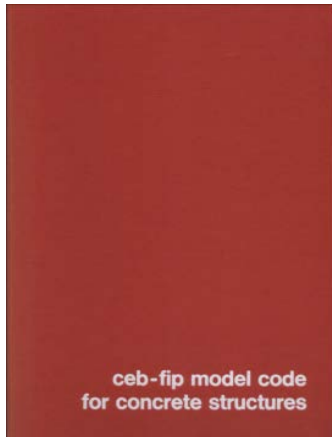


Results of commission and task group are published as *fib* bulletins

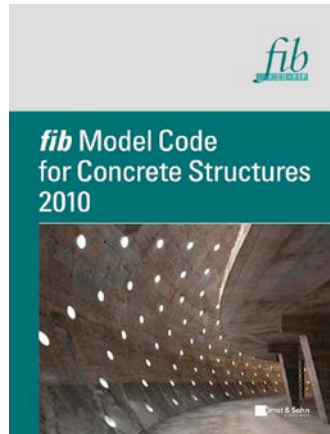
- Technical reports
- State-of-the-art reports
- Textbooks
- Recommendations
- Model Codes



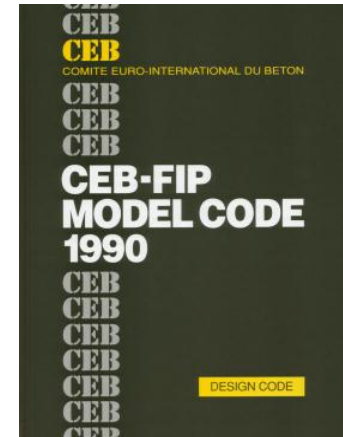
Evolution of Model Codes



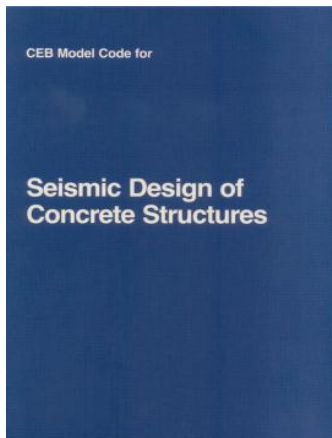
Model Code 1978



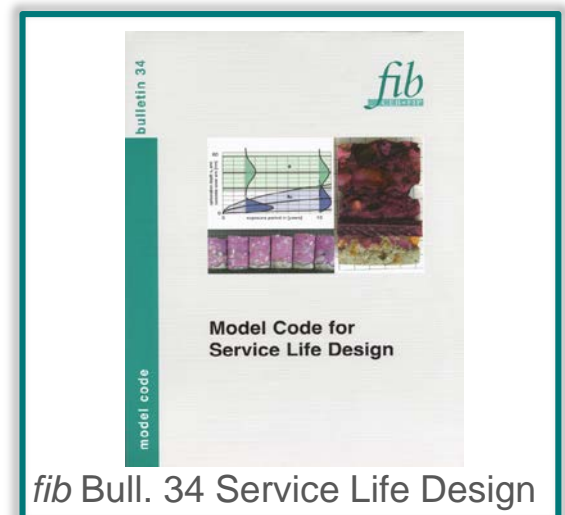
Model Code 2010



Model Code 1990

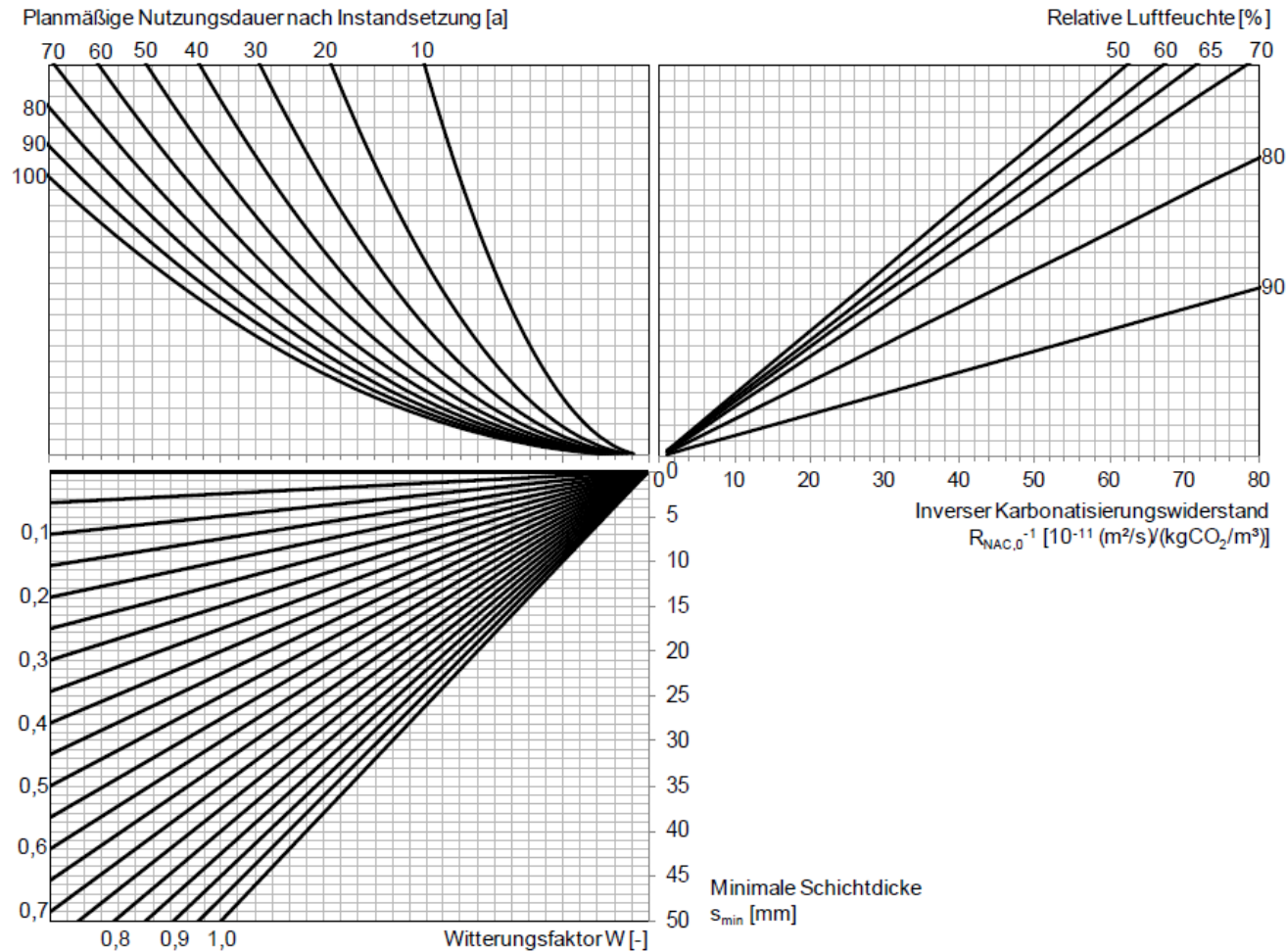


CEB Bull. 165 Seismic Design



fib Bull. 34 Service Life Design

Lebensdauerbemessung im DAfStb

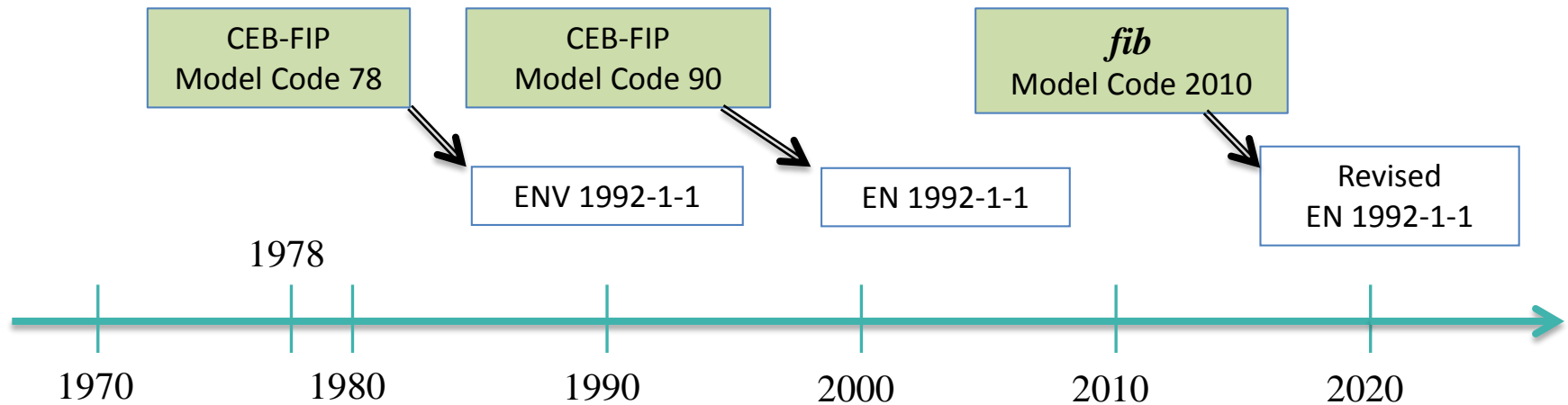


Teil 5 der neuen Instandhaltungs-Richtlinie (Entwurf)

The impact of fib (CEB-FIP) Model Codes



Strong influence on Eurocodes



MC78 and MC90 were used in Brazil partly as national codes



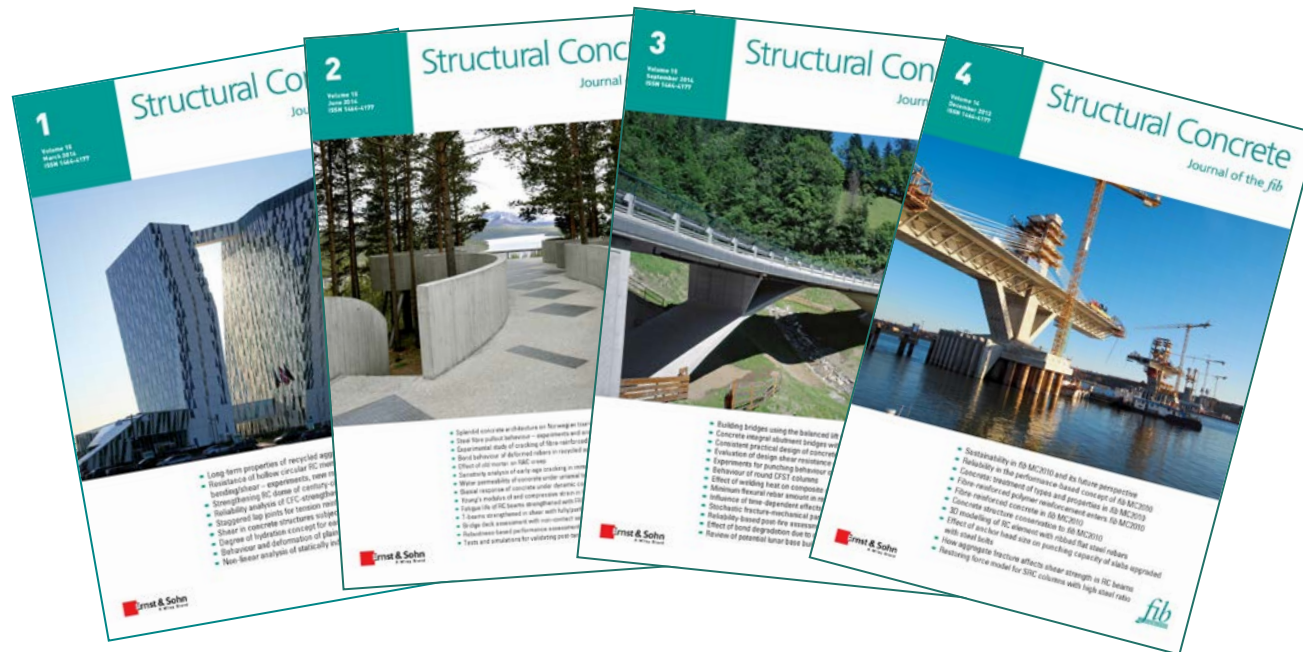
Collaboration with Asian and African Model Code



**Model Codes are used as reference documents
both in research and in design**

The *fib*'s Structural Concrete journal

**Impact factor 2015:
0.857 → 1.492**



The *fib*'s Structural Concrete journal

Contents



They have already become a new landmark: The six new water towers in the Al Jahra area in Kuwait City. Their mushroom-shaped water tanks were post-tensioned using DYWIDAG Strand Tendons. It goes without saying, that these buildings are of decisive importance for the inhabitants of cities in Kuwait, see page A5 (photo: DSI).

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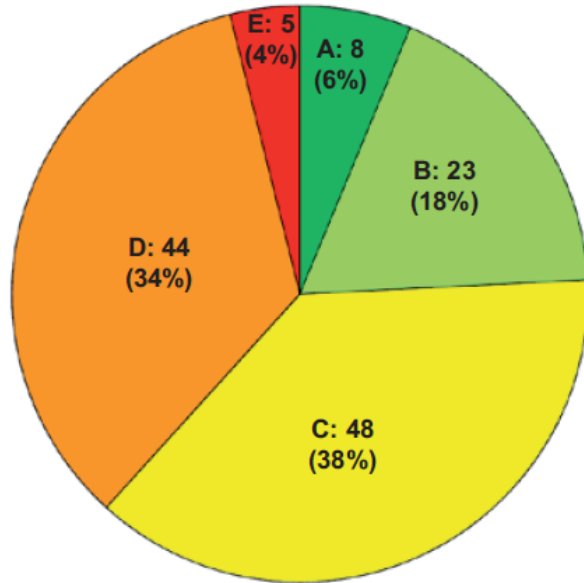
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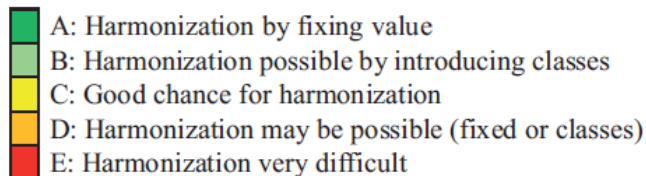
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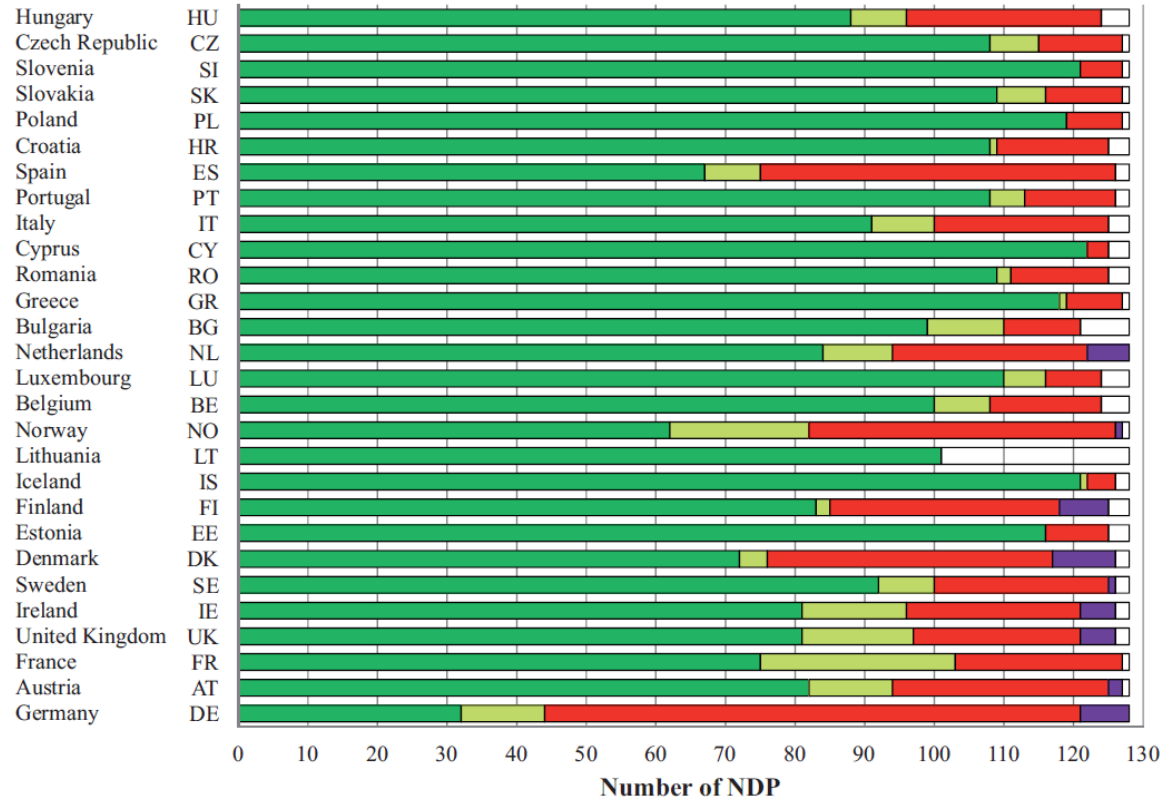
The *fib*'s Structural Concrete journal



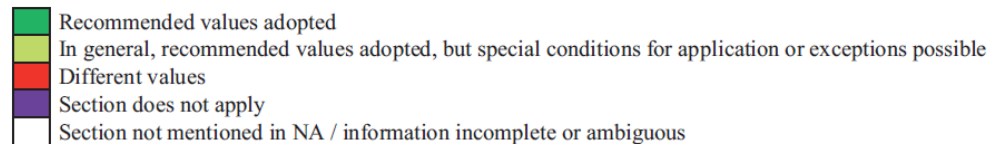
Key to Fig. 1: Categories



NDP in EN 1992-1-1



Key:



Staying informed about the fib's activities



Quarterly newsletter: “*fib-news*”
Published as part of the SC Journal;
also available as a PDF file



The *fib* in Russia: new standards

In 1993 the Ministry of Justice officially registered the Structural Concrete Association, the *fib* National Member Group for Russia. However, a true history of the association goes back as far as 1957, when the Academy of Construction and Architecture of the USSR created the Commission for Prestress Concrete, which later became the National Committee of the FIP, chaired by Professor K. Mikhailov. In 1969 the Coordinating Scientific and Technical Council for concrete and reinforced concrete was created. It was composed of delegates appointed by over 500 organizations from the Republics of the Soviet Union and established close contact with the FIP, the CEB, IASS, RILEM and other international organizations.

With the dissolution of the Soviet Union, the council was practically discontinued. For this reason, in 1991, it merged with the FIP National Committee to become the Structural Concrete Association and was reorganized again in 1999 under a new Russian law.

Since it has come into existence the Structural Concrete Association have organized nearly forty large conferences and congresses. Its major achievements are the all-

Russian (international) conferences on concrete and reinforced concrete, supported by the *fib*, RILEM and the ACI, and the 59th RILEM annual meeting in Moscow. [A detailed account of the 3rd All-Russian (International) Conference on Concrete and Reinforced Concrete can be found in the September 2014 issue of *fib-news*.]

One of the association's main objectives is to implement international norms. This year the Eurocodes will be adopted in Russia.

A major benefit to the application of the codes is the ease with which European construction companies will be able to bring their own projects into Russia. Substantial sections of edifices will be designed at home, thereby speeding up overall construction.

The introduction of the Eurocodes does not mean that the Russian codes will disappear in 2015; rather, the two systems will coexist, with a possible phasing out of one of them, should it become irrelevant.

One of the issues that the Eurocodes might encounter is the variety in climatic conditions in Russia. The northern territories have extreme

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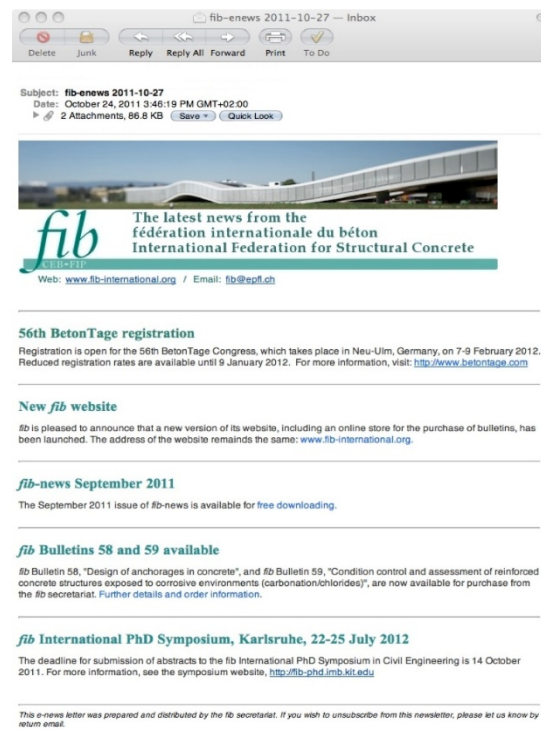
weather conditions and standards for infrastructure need to be met to ensure inhabitants' safety. Steel towers, pipes, storage units and all matter of buildings and bridges exist in regions where winter temperatures can drop below -50 °C. Some sections of the Eurocodes limit the use of steel to temperatures ranging from -40 to -50 °C, and no lower. Regrettably, these limitations could



A recent highway overpass in the small city of Podolsk, 15 km to the south of Moscow. The Eurocodes were used for guidance in the experimental calculations for the structure. Photo credit: V P Korotkiy

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Electronic newsletter: *fib* e-news”
Dispatched every 5-6 weeks



To subscribe: fib@epfl.ch

- Cooperation within the Liaison Committee of International Associations of Civil Engineering since 1950s
- **Signature of MoC with RILEM, Melbourne, 2 September 2015**



2015-16 *fib* presidium members



- **Harald S. Müller, Germany, President**
- Hugo Corres Peiretti, Spain, Deputy President
- Gordon Clark, UK, Past President
- Josee Bastien, Canada
- **Frank Dehn, Germany**
- Marco di Prisco, Italy
- Iria Doniak, Brazil
- Stephen Foster, Australia
- Akio Kasuga, Japan
- Aurelio Muttoni, Switzerland
- Tor Ole Olsen, Norway
- Petra Schumacher, Secretary General

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Thank you!



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