

A Bridge between Research and Practice
International Federation for Structural Concrete



2019 fib Honorary Membership

Presented by: *fib* President, Tor Ole Olsen

Date: 27 May 2019

fib 2019 Symposium - Concrete: Innovations in materials, design and structures



2019 *fib* Honorary Life Member



Milan Chandoga



Education overview

- 1972 Civil Ing. Specialisation for Concrete Construction of Bridges. Civil Engineering Faculty, Slovak Technical University, Bratislava (CEF STU, Bratislava)
- 1977 PhD. CEF STU, Bratislava. Topic of the dissertation "Optimising of tension in Cable Stayed Bridges"
- 1985 Assoc. Prof. title defence at CEF STU, Bratislava
- 1986 Qualification certificate for training and testing of prestressing personnel, UVS Slovak republic



Career overview

- 1972 – 1975 Doctoral degree study, Department of Concrete construction and Bridges, CEF STU, Bratislava
- 1975 – 1985 Lecturer, Department of Concrete Construction and Bridges, CEF STU, Bratislava
- 1980 – 1981 6-month scholarship research stay at the University of Sheffield, UK
- 1985 – 2012 Assoc. Prof. Department of Concrete construction and Bridges, CEF STU, Bratislava
- 1985 – 1989 Vice-dean for research, CEF STU, Bratislava
- 1990 – 1994 Founder and first Vice-President of the Slovak Union of Civil Engineers
- 1990 – Present Founder and director of PROJSTAR-PK, Ltd.
- 1993 – 2002 Editor-in-chief , Civil Engineering Journal *Inžinierske Stavby*
- 1993 – Present Founder and member of Slovak National Committee *fib* (SNK *fib*)
- 2000 – Present Member of TG9 *fib*
- 2004 – Present President of Slovak National Committee *fib*
- 2009 – Present Referee of - Slovak National Accreditation Service - SNAS



Main Projects (1985-1992)

1985 - 1991 Lafranconi Bridge
over the river Danube, Bratislava



1989 - 1992 Development of compact anchor system
PROJSTAR CH-1, CH-2 for technology Monostrand



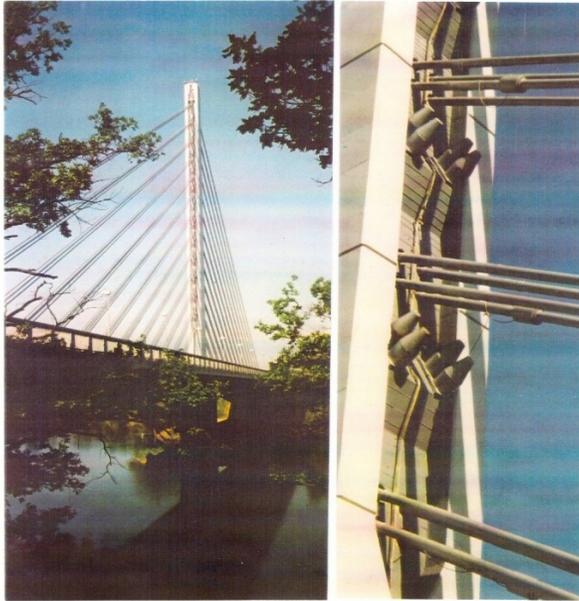
Major contributions:
Development of
Monostrands. Design and
Fatigue tests of ET in
deviators



Main Projects (1985-2014)

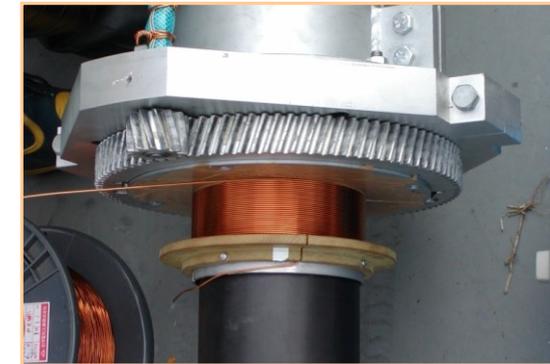
1985 - 1990 Cable stayed bridge in Tabor CZ. The first application of EM sensors.

2000- 2014 Development of EM monitoring system and measurement of stay cable forces

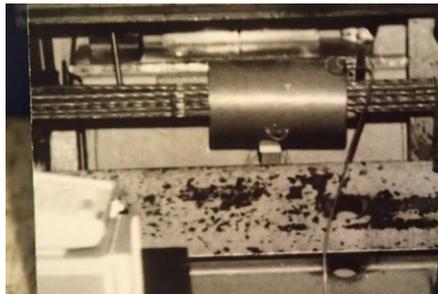


The second Yangtze River Bridge Nanjing, China

Cooperation with UIC- Chicago on research project **EM SENSOR** sponsored by NSF USA



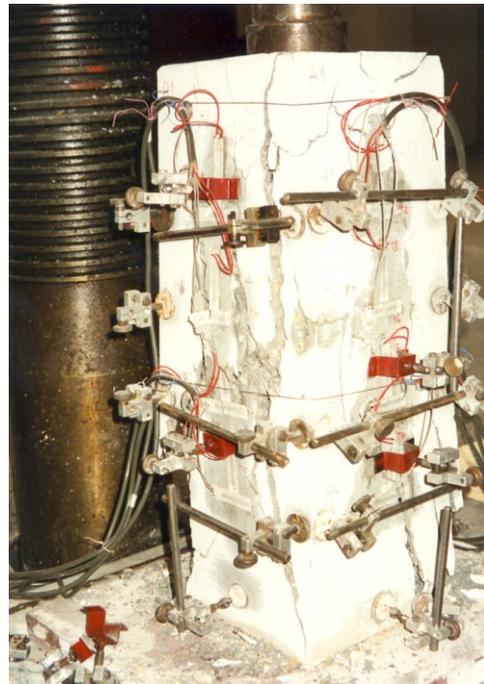
Calibration of EM



Main Projects (1992-1999)

1992-1995 Development and start-up of the production of the prestressing system PROJSTAR-CH

1999 Development of technology for strengthening of cracked cylindrical structures

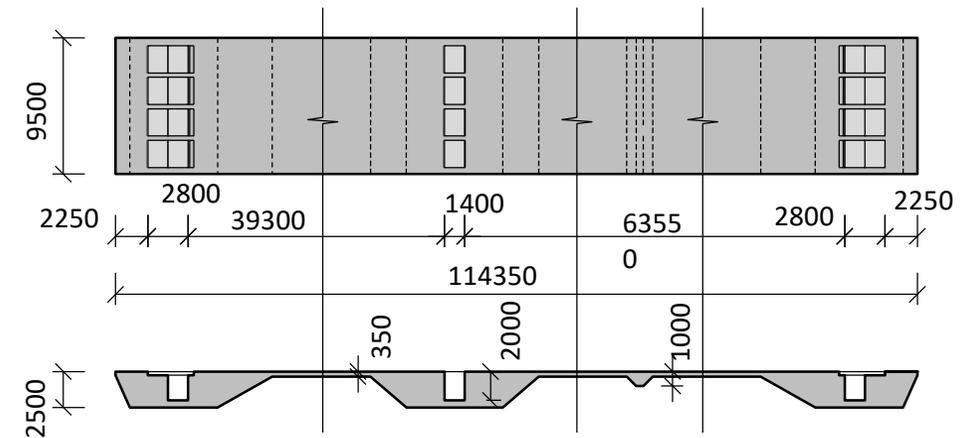


Main Projects (2002-2018)

2017 Collaboration on development of electrically-isolated tendons PROJSTAR-CH/EI



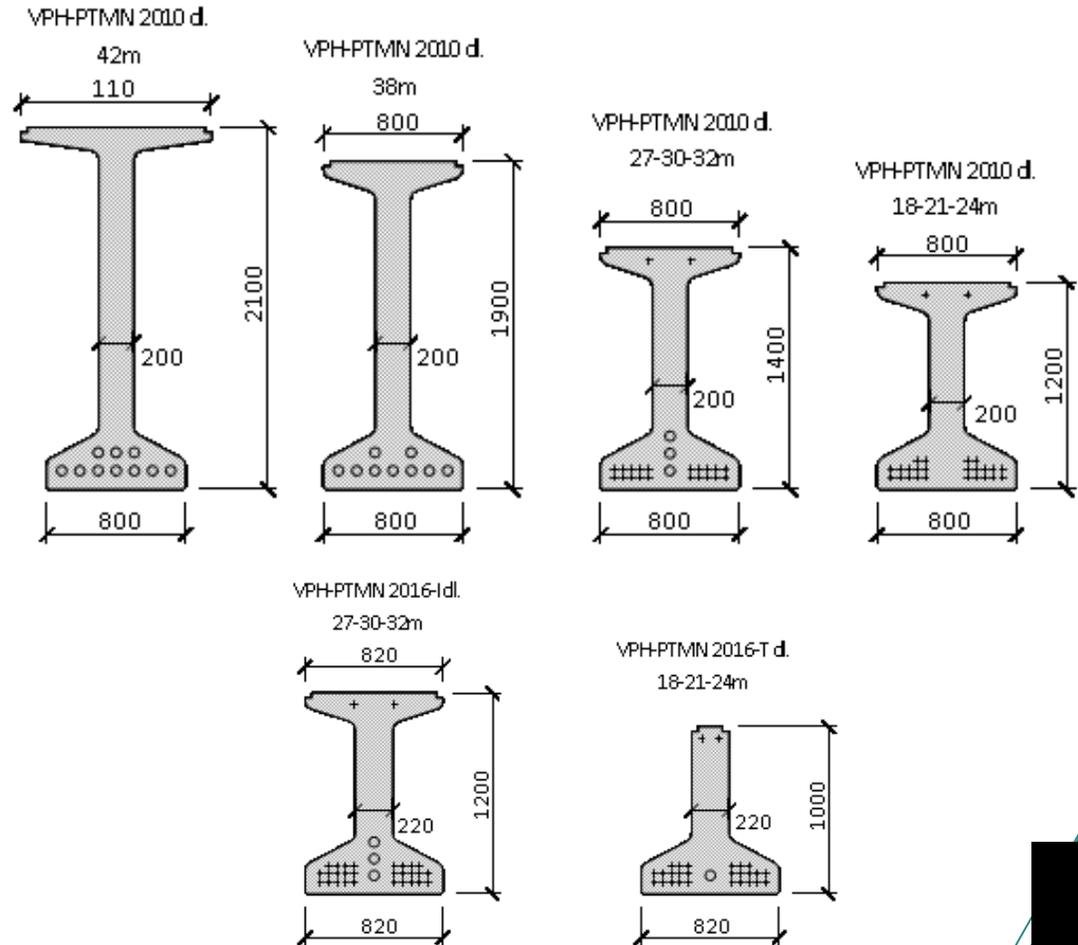
2002 – 2018 Design of concrete beds and technological project of universal lines for prestressed prefabricated production (5 lines)



Main Projects (2010-2018)

Design of Steel stand elements
elaboration of technological regulations for
operation and production

2010 -2018 development and design of
bridge beams (4 catalogs)



Main Projects (2010-2018)

Bridge beam certification – static load tests

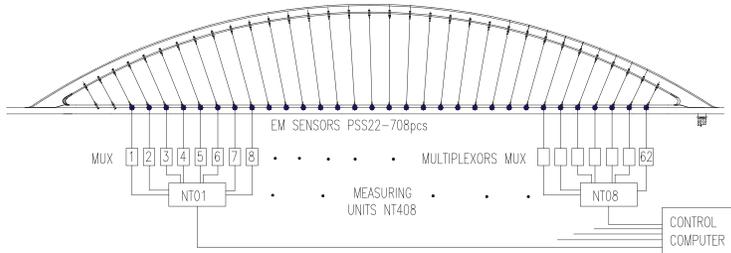


Composite bridge segment load test -
Extradosed Viaduct Pov. Bystrica



Main Projects: Monitoring & Sensors

Monitoring of Forces on Cable-stays of Apollo Bridge, Bratislava



Development of EM Sensor 37PSS20 and Monitoring of Forces in Cable Stays



Extradosed Viaduct at Považská Bystrica

Development of Sensor PMJS13 Projstar Multistrand Jack Sensor -13 strands



Monitoring of forces on corroded strands during prestressing



fib Membership & Involvement

Concrete in Slovakia 2014-2018
Conference SNK *fib*



Meeting of SNK *fib* – excursion in situ



1989 – 1993
1993 – Present

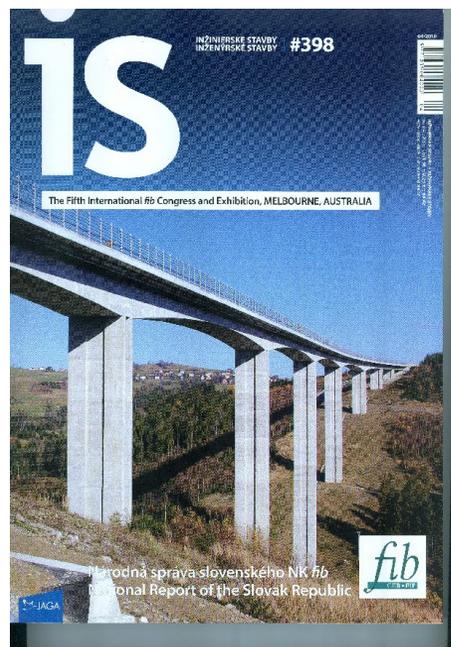
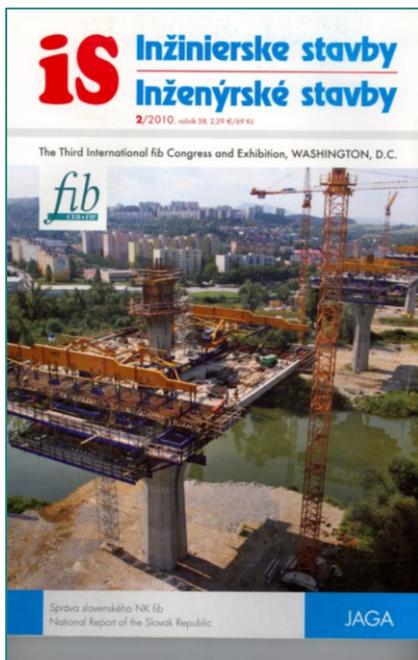
2000 – Present
2004 – Present

ČSK FIP Deputy of CEF STU Bratislava
Founder and member of Slovak
National Committee *fib* (SNK FIP/*fib*)
Member of TG9 – C5 *fib*
President of Slovak National
Committee *fib* – SNK *fib*

TG9 meeting
in Quebec



fib Publications & Awards



More than 170 publications, including congress symposia proceedings and Slovak National Reports.

SNK *fib* published 7 National reports
5 NR with Milan Chandoga as responsible editor

2018 Medal in honor of 25 anniversary of SNK *fib*

2008 Medal of SNK *fib* for lifetime contribution to concrete development

2006 -2010 The best concrete construction of Slovakia
Award of SNK *fib* for the development of the multilane EM sensor PMS37 and for monitoring the forces on the extradosed viaduct in Považská Bystrica

1990-94 and 1994-98

The best concrete construction of Slovakia
Awards of SNK FIP for projects and realisation of the first additionally prestressed parking and foundation slabs with Monostrand reinforcement in Slovakia



Family & leisure



Daughter Bozena (ceramic artist)
Faculty of Design, The National College
of Art and Design, Dublin, Ireland



Son Milan
trener fitness



Wife Darina
Grandchildren Biba, Bela, Mat'o

Family & leisure



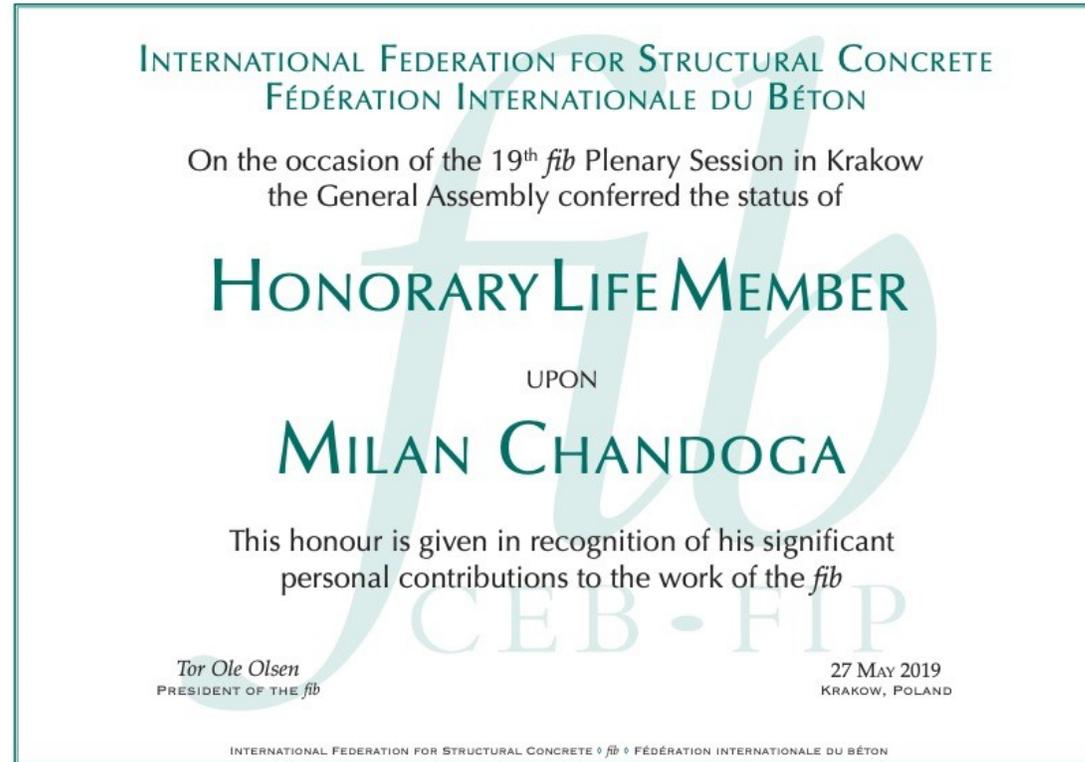
Hiking and cottage construction in the North Slovakia



Tourist



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Milan Chandoga

