

BURDET Olivier

Senior research associate and lecturer
Structural Concrete research group (IBAP-EPFL)
Swiss Federal Institute of Technology at Lausanne

B.S. in Civil Engineering, EPFL, Lausanne, 1983
Ph.D. in Structural Engineering, Univ. of Texas at Austin, 1990



Research

Punching shear of eccentrically loaded columns
Numerical modelling of cracked structures
Automatic bridge deflection measurement system using inclinometers
Actual long- and short-term behavior of reinforced and post-tensioned concrete structures
External prestressing of box-girder bridges

Teaching

Reinforced and Prestressed Concrete
Reinforced Concrete Structures
Diploma and Projects of Reinforced Concrete Structures

Services and Professional Organizations

Member of the Publications Committee of the journal Structural Engineering International (SEI / IABSE)
Member of TG 4.1 (Modelling) and 5.1 (Monitoring) of fib, member of Swisscodes 2 (concrete structure)
Professional organisations: SIA, SIA-GPC, fib, IABSE
Design and consulting experience in structural engineering and finite elements modelling

Professional Experience

1983 - 1985: GSS, structural engineering office in Zürich (steel and concrete buildings, FE modelling)
1986 - 1990: University of Texas at Austin, Civil Engineering Department; Research Assistant
1990 - present: Swiss Federal Institute of Technology, IBAP; senior research associate and lecturer
Specialist for in situ testing and computing at IBAP

Recent Publications

R. Favre, J.-P. Jaccoud, O. Burdet et al., Dimensionnement des structures en béton, Traité de Génie Civil, Lausanne, avril 1997.
O. Burdet, Automatic Deflection and Temperature Monitoring of a Balanced Cantilever Concrete Bridge, Calgary, July 1998.
G. Krüger, O. Burdet et al., Punching Test on RC Flat Slabs with Eccentric Loading, Budapest, August 1998.
S. Rossier, O. Burdet et al., Concrete Tie Model for the flexural behaviour of RC and PC Sections, Budapest, August 1998.
M. Badoux, R. Favre, O. Burdet et al., Design and Construction of the Ile Falcon Bridge, Concrete International, February 1999.
R. Favre, M. Badoux, O. Burdet et al., Design of a Curved Incrementally Launched Bridge, SEI, May 1999.
R. Favre, O. Burdet, Wahl einer geeigneten Vorspannung, Beton- und Stahlbetonbau, Nr 92/3, pp 67, mars 1997, German.

Miscellaneous

Languages: French, English, German
Born March 9, 1960, Swiss citizen, married, 3 children