

CURRICULUM VITAE OF CHRISTIAN MENN

Christian Menn
Professor Dr. sc. techn. Dr. Eng. h.c.

03.03.1927 – 16.07.2018

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EDUCATION AND PROFESSIONAL EXPERIENCE

3. 3. 1927 Birth: Meiringen BE; Native place: Zillis GR; Place of residence: Chur GR (Switzerland)
- 1939 – 46 Comprehensive secondary school, Chur
- 1946 – 50 Studies at the Swiss Federal Institute of Technology (ETH), Zurich
- 1950 Diploma in Engineering from the Swiss Federal Institute of Technology (ETH), Zurich
- 1951 – 53 Engineer
- Elektrowatt Ingenieurunternehmung AG, Zurich
 - Losinger & Cie AG, Bern
- 1953 – 56 Research Associate to Prof. Pierre Lardy, Swiss Federal Institute of Technology (ETH), Zurich
- 1956 Dr. sc. techn., Swiss Federal Institute of Technology (ETH), Zurich
- 1956 – 57 Engineer at Société Dumez, Paris
- 1957 – 71 Head of own Engineering Company at Chur, Switzerland
- Responsible for the design of 80 bridges built in Switzerland
- 1971 – 92 Professor of Structural Engineering at the Swiss Federal Institute of Technology (ETH), Zurich
- Taught undergraduate and graduate courses on bridge design, concrete structures, and structural analysis
 - Conducted research on behaviour and design of
 - Partially prestressed structures
 - Strength of slender columns
 - Crack behaviour and crack control
 - Durability of concrete structures; corrosion due to chloride action and carbonation in combination with porosity of concrete cover and cracking
 - External prestressed concrete bridges
 - Numerous publications in Swiss, German and American Journals
 - Textbook on design of concrete bridges
 - Consultant to owner or designer on practically all major bridges built in Switzerland between 1971 and the present
 - Member of competition Juries for practically all major bridge competitions between 1962 and the present
 - Member of competition Juries in Germany (Bridges at Mannheim, Stuttgart etc) Great Britain and USA (Severn Bridge Annapolis, Virg.)
- 1992 - Consulting Engineer in Private Practice
- Consultant to Swiss Federal Highway Department for assessment and rehabilitation of Concrete Bridges
 - Consultant to Cantonal Highway Departments for review of bridge projects
 - Consultant to several Engineering Offices in Switzerland and abroad especially for conceptual design of major bridges
 - Member of several Competition Juries in Switzerland, Germany, Great Britain etc.

MAJOR AWARDS

- 2007 Bridge Design Award 2007, New York City Bridge Conference
- 2003 ACEC American Council of Engineering Companies, Grand Award for excellence in engineering and architectural concept
- 1998 Carl Friedrich Gauss Medal of the "Braunschweigische Wissenschaftliche Gesellschaft", Germany
- 1997 John A. Roebling Medal, Engineer's Society of Western Pennsylvania
- 1996 Honorary Doctor; University of Stuttgart
- 1991 Award for Science and Culture, Graubünden, Switzerland
- 1990 Freyssinet Gold Medal of the Fédération Internationale de la Précontrainte
- 1989 Honorary Member, Swiss Society of Engineers and Architects
- 1982 Fritz Schumacher Prize for outstanding bridge design, Germany

COMMITTEE WORK

- 1975 to 1991 Chairman of SIA Committee 162 of the Swiss Society of Engineers and Architects (Building Code for Concrete Structures)
- 1992 Swiss Delegate of Eurocode II/2; Design of Concrete Bridges

PUBLICATIONS

Former Publications mainly dealt with research work on:

- Second-Order Analysis of slender reinforced Concrete Members (like Columns, Arches, Slabs of Cable stayed Bridges) and reinforced Concrete Systems
- Partial Prestressing and External Prestressing
- Crack Behaviour and Crack Control
- Geometric Analysis of reinforced Concrete Members subjected to imposed Deformations.
- Several Publications dealt with
 - The new Swiss Standards for reinforced Concrete Structures elaborated under my presidency
 - The design and construction of extraordinary Bridges

Recent Publications mainly deal with Problems of Durability of reinforced Concrete Bridges and Bridge Aesthetics, e.g.:

- Verbindung von altem und neuem Beton (Bond of old and new Concrete). Birkhäuser Verlag Basel-Boston-Berlin; Bericht Nr. 193, August 1992.
- Zustandsermittlung, Zustandsbeurteilung und Verstärkung von Stahlbetonbrücken; Vorspannung ohne Verbund (Strengthening of reinforced Concrete Bridges with external Prestressing). Vereinigung Schweiz. Strassenfachleute, Zürich, August 1996.
- Ermittlung und Beurteilung der Bewehrungskorrosion (Investigation and Assessment of Corrosion in reinforced Concrete Bridges). Schweiz. Ingenieur + Architekt, Nr. 16/17; Zürich 1998.
- Zustandsermittlung und Instandsetzung von Betonbrücken (Investigation and Repair of reinforced Concrete Bridges). Schweiz. Ingenieur + Architekt, Nr. 23; Zürich 2000.
- The Place of Aesthetics in Bridge Design. Structural Engineering. International. Volume 6, No. 2, 1996.
- Sunniberg Bridge, Klosters, Switzerland. Structural Engineering. International. Volume 7, No. 1, 1997.
- Functional Shaping of Piers and Pylons. Structural Engineering. International. Volume 8, No. 4, 1998.

Other Authors:

- Christian Menn: Bridge Builder. Bridge Design and Engineering; No. 15, second Quarter 1999.
- Beautiful Thing. Bridge Design and Engineering; No. 17, 999.

RECENT BRIDGES:

- Sunniberg Bridge, Klosters: Conceptual Design.
- Charles River Crossing, Boston: Collaborator of Bechtel Parsons Brinckerhoff; Conceptual Design.
- Arachthos Bridge, Bridge over a storage lake in Greece: (Length 3300', Width 90', Height 250') extremely strong earthquake area; preliminary and final Design.
- Woodrow Wilson Bridge, Washington D. C. Consultant to Parsons Transportation Group during the Competition Phase.

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