

CURRICULUM VITAE OF CHRISTIAN MENN

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Profession Professor Dr. sc. techn. Dr. Eng. h.c.



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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2007	2007 Bridge Design Award New York City Bridge Engineering Association
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1998	Carl Friedrich Gauss Medal of the " Braunschweigische Wissenschaftliche Gesellschaft", Germany
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30.08.08 C. Menn