



Senior Professor, Dr. Lennart Elfgren Curriculum Vitae 2021

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Division of Structural Engineering,
Department of Civil, Environmental and Natural Resources
Engineering,
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E-mail: Lennart.Elfgren@ltu.se
Born in Göteborg, Sweden, 1942.
Married, one son born 1977.

1. Higher Education Degree

1965 M Sc Civil Engineering, Chalmers University of Technology, Göteborg

2. Doctoral Degree

1971 Tekn. Dr. in Concrete Structures, Chalmers University of Technology, Göteborg. Thesis: "Reinforced concrete beams loaded in combined torsion, bending and shear. A study of the ultimate load-carrying capacity." Supervisors: Prof. Anders Losberg & Assoc. Prof. Krister Cederwall.

3. Postdoctoral Work

1972 - 73 Post-doctoral Research Engineer, University of California at Berkeley, CA, USA

4. Qualification as Associate Professor

1972 Docent - Concrete Structures, Chalmers University of Technology.

5. Current Positions

1984 – Prof. of Structural Engineering, Luleå University of Technology, LTU. Senior since 2009.

6. Previous Positions

1966 - 71 Research Assistant, Div. of Concrete Structures, Chalmers Univ. of Technology,
1973 - 80 Assoc. Prof. of Structural Engineering, Luleå University of Technology
1973 - 74 Head, Dept of Mining and Civil Engineering, LTU.
1981 - 83 Design Engineer, AB Jacobson & Widmark, Göteborg, (Now merged with WSP)
1983 Research Engineer, SP, Sw. National Testing and Research Institute, RISE, Borås
1985 - 87 Head, Dept of Civil Engineering, LTU
1990 - 97 Dean, Faculty of Engineering Sciences, LTU.
1992 - 98 Board Member, Research Council of Norrbotten, Luleå.
1996 - 99 Chairman, COLDTECH, Center for Cold Climate Technology, LTU
1997 - 03 Head, Dept. of Civil and Mining Engineering, LTU.
1997 - 03 Director, CHPC, Centre for High Performance Cements, LTU
1998 - 08 Board Member, Maud and Samme Lindmark Family Foundation, Skellefteå
2000 - 19 Board Member, Luleå Railway Research Centre (Järnvägstekniskt Centrum vid LTU, JVTC).
2003 - 08 Scientific Leader, EC Integrated Project: "Sustainable Bridges", 32 partners, 10 M€.
2004 - 10 Deputy Head, Dept of Civil, Mining and Environmental Engineering, LTU
2004 - 15 Chairman, Centre for Risk and Safety, CRR, at LTU in Boden
2007 Guest Prof, Central South Univ. of Forestry and Technology, Changsha, P.R. China.
2008 - 11 Chairman, Nordic Safety and Security, NSS, European Regional Project, 60 MSEK.
2011 - 14 Scientific & Techn. Coord., EC Research Project "Mainline", 19 partners, 5 M€.
2013 - 14 Member Sw. Group for Assessing University Education in Civil and Building Engineering
2015 Expert Analyzer for Trafikverket, Sweden for EC Project Capacity for Rail
2015 - 16 Chair, Scientific Committee, IABSE Congress Stockholm 2016, Sept 21-23, 607 attendees.
2016 - 18 Partner in the EC Project Innovative Intelligent Rail, In2Rail, 53 partners, 18M€.
2018 Expert Evaluator, Eur. Council of Marie Skłodowska-Curie Action (MSCA) Individ. Fellows (IF)
2019 Member Arbitration Committee, Wind Power Mill Foundations, Eskilstuna

7. Compulsory Military Service

1965-66 Royal Swedish Engineers, Ing 2, Eksjö, Sergeant

8. Ph. D. Supervisor (with graduation year)

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Main supervisor for: *Lennart Fransson*, 1988; *Mats Emborg*, 1989; *Lars Stehn*, 1993; *Björn Täljsten* 1994; *Jan-Erik Jonasson*, 1994; *Ulf Ohlsson*, 1995; *Keivan Noghabai*, 1998; *Gustaf Westman*, 1999; *Henrik Gabrielsson*, 1999; *Patrik Groth*, 2000; *Erik Nordström*, 2005; *Håkan Thun*, 2006; *Arto Puurula*, 2012; *Rasoul Nilforoush*, 2017. Currently main supervisor for 2 PhD Students

Associate supervisor for: *Kent Gylltoft*, 1983; *Hans Hedlund*, 2000; *Anders Carolin*, 2003; *Martin Nilsson*, 2003; *Mårten Larsson*, 2003; *Jonas Carlswärd*, 2006; *Arvid Hejll*, 2007; *Sofia Utsi*, 2008; *Tobias Larsson*, 2009; *Thomas Blanksvärd*, 2009; *Anders Bennitz*, 2011; *Gabriel Sas*, 2011; *Stig Bernander*, 2011; *Niklas Bagge*, 2017; *Robert Hällmark*, 2018.

9. Pedagogic experience

Concrete Structures, MSc Course, Examiner and lecturer, 1972, 1974 - 81

Structural Engineering and Building Materials, MSc Courses, Examiner and lecturer, 1973 - 1981

Structural Engineering, Advanced MSc Course, Examiner and lecturer 1975 - 1981

Bridge Design, Advanced MSc Course, Examiner and lecturer, 1999 –

Fracture Mechanics, Prestressed Concrete, Assessment of Structures, PhD Courses, Examiner and lecturer, 1983 – 2009.

10. Other information

Participation in the following committees, where communicating results is very important:

1974 - Sw. Concrete Federation, Research Committee 84-05, Auditor since 1997

1986 - 91, Chair, RILEM TC 90 - FMA "Fracture Mechanics of Concrete – Applications"

1987 - *fib* (féderation internationale du béton, CEB-FIP) Member Task Group on "Fastenings to Reinforced Concrete and Masonry Structures"

1990 - Member of three Committees of the American Concrete Institute: 355 "Anchorage to Concrete"; 445 "Shear and Torsion", ACI-ASCE; 446 "Fracture Mechanics".

1991 - 93 Convenor, CEN EC 2 - Part 1A1. Eurocode 2: Concrete Structures - Unreinforced and lightly reinforced structures

1992 - 99 Chair, RILEM TC 147 - FMB "Fracture Mechanics to Anchorage and Bond"

1997 - 01 Member of the Executive Committee of "MiMi -Mitigation of the environmental impact from mining waste" - founded by MISTRA, the Sw. Found. for Strategic Environmental Research

1998 - 00 Member of the Program Committee for Building and Production Technology of BFR, the Swedish Council for Building Research.

2003 - 07 Member of the Committee for Research, Development and Demonstration of Banverket (The Swedish Rail Administration)

2004 - Partner of the Swedish Universities of the Built Environment. Member of the Steering Committee, 2004-09. Member Structural Engineering Group 2004-

2015 - 16 Chair Scientific Committee, International Association for Bridge and Structural Engineering, IABSE, 14th Congress, Stockholm, 21-13 Sep., 2016, 607 attendees, 47 countries, 530 papers.

2016 – 19 Swedish delegate in EC Project COST TU1406. Road bridge specifications

Distinctions:

1972 Swedish-America Foundation. Fellowship for studies in the United States

1974 Member, Sw. Concrete Federation. Fellow 2003, Gold Medal 2004.

1991 Founding Fellow of the Bothnian Academy, Umeå, Sweden. Chairman 1998

1996 Fellow of the Royal Skyttean Society, Umeå, Sweden

1996 Björn Wahlström Award at the 25th Anniversary of LTU

2001 Fellow of the Royal Swedish Academy of Engineering Sciences, IVA, Stockholm

2006 Fellow of the American Concrete Institute, ACI. Member since 1967

2010 Research Award, Maud and Samme Lindmark Family Foundation

2018 Honorary Member of the International Association for Bridge and Structural Engineering, IABSE

Publications:

Since 1967 more than 300 publications primarily regarding design and assessment of concrete structures, see <http://www.ltu.se/staff/e/elfgren> h-index = 21, i-10-index = 51 (Google Scholar)