

Mohammad Al-Emrani: Curriculum Vitae

Personal data

Name: Mohammad Al-Emrani
Date and place of birth: 1967-10-08, Basra – Iraq
Citizenship: Swedish
Current Position: Associate Professor / Steel and Timber Structures – Chalmers University of Technology
Home address: Studiegången 10-209, 416 81 Göteborg
Business address: Chalmers University of Technology, Department of Structural Engineering SE-412 96 Göteborg, Sweden
Phone: +46 31 772 22 58 (Work)
+46 31 33 88 953 (Home)
+46 737 25 95 53 (mobile)
E-mail: Mohammad.Al-Emrani@chalmers.se



Education and Degrees

2002 PhD in Steel and Timber Structures, Chalmers University of Technology, Sweden
PhD Thesis: Fatigue in Riveted Railway Bridges (2002-10-15)
Supervisor: Dr. Björn Åkesson. Examiner: Prof. Robert Kliger
2000 Lic. Eng. in Steel and Timber Structures, Chalmers University of Technology, Sweden
Licentiate thesis: Two Fatigue-Related Problems in Riveted Railway Bridges (2000-03-15)
Ass. supervisor: Dr. Björn Åkesson. Supervisor and examiner: Prof. Bo Edlund
1998 M.Sc. in Civil Engineering, Chalmers University of Technology, Sweden
Master's thesis: Fatigue Damage Retrofitting of Riveted Bridge Girders (1998-03-11)
Ass. supervisor: Dr. Björn Åkesson. Supervisor and examiner: Prof. Bo Edlund
1988 B.Sc. in Civil Engineering, Basra University, Iraq.

Employment

2008- Associate professor / Docent in steel and timber structures, Chalmers University of Technology, Sweden
2007-2008 Researcher, Steel and Timber Structures, Chalmers
2003-2007 Assistant professor, Steel and Timber Structures, Chalmers.
1998-2002 PhD student, Steel and Timber Structures, Chalmers.
1988-1991 Structural Engineer, Al-Faw Construction, Basra – Iraq.

Research

Research Areas:

- Fatigue life expectancy of riveted railway bridges
- Fatigue design and analysis of welded connections
- Strengthening and repair of structures using composite materials
- FRP bridges and structures
- Stability of thin-walled steel members.

Research Projects (selection from last 5 years):

- “Sustainable Bridges”, FP6, 2004-2007
- Fatigue critical details in steel bridges, Swedish Rail administration, 2006
- Strengthening and repair of iron and steel structures using CFRL, Swedish Rail administration, 2006-2007
- A best-practice guide for the fatigue design of welded bridge details, Swedish Rail administration, 2006-2008
- Strengthening and repair of fatigue damaged steel structures using composite materials, SBUF (construction industry's organisation for research and development), 2007
- Benefits of strengthening and repairing timber with fiber reinforced polymers, FORMAS (The Swedish Research Council), 2008-2011
- Bridge Fatigue Guidance – Meeting Sustainable Design and Assessment (BriFaG), RFCS, 2008-2011
- “Pantura”, FP7, 2011-2013

Industrial Assignments

- Analysis of fatigue cracking in the Forsmo Bridge (Banverket, Sweden)
- Evaluation of fatigue cracking in the Rolvsøysund bridge (Jernbaneverket, Norway)
- Analysis of the collapse of GC-bro S950 in Kil (mainly conducted as a Master's thesis)
- Fatigue strength of welded reinforcement in concrete piles (NCC, Sweden)
- Fatigue assessment of the Vårby Bridge (Ramböll, Sweden)

- Member of the International Institute for FRP in Construction; IIFC
- Member of the ECCS-TC6 "European Convention for Constructional Steelwork - Technical Committee 6 – Fatigue"

Honours and Awards

- 1999 Awarded for the *best contribution of young researchers* at the Second European Conference on Steel Research, 1999.
- 2001 Nominated as "*Best Teacher*" at the Civil and Environmental Engineering School, Chalmers University of Technology
- 2002 Nominated as "*Best Teacher*" at the Civil and Environmental Engineering School, Chalmers University of Technology
- 2005 Awarded the *pedagogy prize* for the year 2005.
- 2009 Awarded the “Sigge Thernwalls Prize” for outstanding research within the field of infrastructures
- 2010 Partner in Tenroc Technologies (strengthening of structures with FRP laminates); first prize winners of Venture cup West 2010 and the SKAPA-prize West - inventor's prize in the memory of Alfred Nobel.

Patent

Patent No. 0701574-6 “Anchoring Prestressed FRP Laminates”

Languages

English	Fluent
Swedish	Fluent
Arabic	Fluent