



دکتر محمدرضا بهاری

عضو هیأت علمی دانشگاه تهران

سطح علمی: دانشیار

**Dr. M.R. Bahaari**  
**Tehran University**  
**Associate Professor**

#### **Education:**

PHD: Structural Engineering, the University of Waterloo, Canada, 1994

M. Se: Structural Engineering, Sharif University of Technology, Tehran, Iran, 1989

B. Se: Civil Engineering, Sharif University of Technology, Tehran, Iran, 1986

#### **Research Interests**

- Subsea Pipeline and Pipelaying Analysis and Modeling
- Behavior of Bolted Semi-rigid Connections and its effect on frame performance .
- Offshore Platforms Behavior .
- Stability of Structures .
- Stress Distribution and Behavior of multiplanar Hollow Section, e.g. DX, DT, DK

#### **Current Researches**

- Behavior of flush Endplate Beam to Column connections .
- Study and evaluation of remedial actions against Sealine Buckling/ Instability
- Assessment of Ultimate Strength (Push Over Analysis) of offshore platforms .
- Analytical calculation of SCF for multiplanar Tulbar Connectons .
- Steel-Concrete Composite Bolted connections: Behavior and strength studies
- Lateral Buckling of Subsea HP/HT Pipelines .

### Courses

- Strength of Materials I & II
- Construction Material Elastic
- Stability of Structures

### Selected Journal Publications

Bahaari, M.R & Mehdizadeh, B, "Parametric Study of Dynamic Behavior and Residual Strength of Axially Pre-Loaded Tubular Steel Members of Offshore Structures Subjected to Impact Damage".

Accepted with Conditions to Journal of Amir Kabir Journal of Engineering (In Farsi) for possible Publication, 2006

M.R. Bahaari (2005), "Coordinate of National Qualifications to carry Offshore Projects: Requirements and Necessities". Journal of Payam-e-Darya, Vol. 14, No. 143 (In Farsi), pp. 42-49

M.R. Bahaari & Hosseini, B. (2003), "Numerical Analysis of Stress Concentration Factors for XX & TT Multiaxial RHS Connections". Journal of Faculty of Engineering, University of Tehran, Vol. 36, No.3, Serial # 77, (in Farsi), pp. 345-359

M.R. Bahaari & Molaei, B. (2003), "Numerical Analysis of Stress Concentration Factors for KK Multiaxial Tubular Connections". Journal of Faculty of Engineering, University of Tehran, Vol. 37, No.1, Serial # 79, (in Farsi), pp. 1-12

Mohammed R Bahaari & Archibald N Sherbourne (2000). "Behavior of 8-Bolt Large Capacity Endplate Connection". Computers and Structures, (An Intl. Journal), Vol. 77, pp. 315-325

M.R. Bahaari & Hassanirad, A. (2002), "Moment-Rotation Relationship in Flush Endplate Connections". Journal of Faculty of Engineering, University of Tehran, Vol. 36, No.2, Serial # 76, (in Farsi), pp. 185-200 .

M.R. Bahaari & Shokrollahi, B. (2001). "Numerical Study of Ship Collision to Offshore Platforms". Journal of Faculty of Engineering, University of Tehran, Vol. 36, No.1, Serial # 75 (in Farsi), pp. 25-34 .

M.R. Bahaari & A.A. Rahmatipour (2000). "Buckling Residual Capacity of Corroded Plates". Journal of Faculty of Engineering, Vol. 34, No. 2, Serial # 68, pp. 33-43, University of Tehran, Tehran, Iran, (in Farsi (

M.R.Bahaari & M.Karimdadian (1999)"Study of SCF in Multi Planar Tubular Connection".Journal of Faculty of Engineering,Vol.33, No.2,Serial #64,University of Tehran,Tehran,Iran,(in Farsi (

M.R. Bahaari and Karimdadian, M. (1999). "Study of SCF in Multi Planar Tubular Connections." Journal of Faculty of Engineering, Vol. 33, No.2, Serial # 63, University of Tehran, Tehran, Iran

Mohammed R Bahaari (1998). "Numerical Modeling of Flush Endplate Bolted Connections." Journal of Faculty of Engineering, Vol. 31, No.2, Serial # 61, University of Tehran, Tehran, Iran, Dec. 1998

Archibald N Sherbourne & Mohammed R Bahaari (1997) "Predictive Endplate Bolted Connection Behavior; Part 1: Parametric Study." Journal of Structural Engineering, ASCE, 123 (2), pp.157-164, USA, Feb. 1997

Mohammed R Bahaari & Archibald N Sherbourne (1997) "Predictive Endplate Bolted Connection Behavior; Part 2: Analytic Formulation." Journal of Structural Engineering, ASCE, 123 (2), pp.165-175 USA, Feb. 1997

Archibald N Sherbourne & Mohammed R Bahaari (1996) "3D Simulation of Bolted Connections to Unstiffened Columns: Part 1: T-Stub Connections." Journal of Constructional Steel Research, Vol. 40, No.3, pp.169-188, U.K., Dec. 1996

Mohammed R Bahaari & Archibald N Sherbourne (1996) "3D Simulation of Bolted Connections to Unstiffened Columns: Part 2: Extended Endplate Connections". Journal of Constructional Steel Research, Vol. 40, No.3, pp.189-224, U.K., Dec. 1996

Mohammed R Bahaari & Archibald N Sherbourne (1995) "Structural Behavior of Endplate Connected to Stiffened Column." Journal of Structural Engineering, ASCE, 122(8), pp. 926-935, USA

Archibald N. Sherbourne and Mohammed R. Bahaari (1994) "3D Simulation of End-Plate Bolted Connections." Journal of Structural Engineering, ASCE, Vol. 120(11), pp. 3122-3136, Nov. 1994

M. R. Bahaari and A.N. Sherbourne (1994) "Computer Modeling of an Extended End-Plate Bolted Connection." Computers and Structures (An Intl. Journal), Vol. 52(5), pp.879-893, Sept. 1994

### **Selected Refereed Conference Papers**

Kheyri, A., M.R. Bahaari (2006), "Evaluation of Ultimate Strength of Jacket Type Structures under Marine Loading". Presentation at ICOPMAS 2006, Nov. 2006, Tehran, Iran

Kheyri, A., M.R. Bahaari (2006), "Effective Parameters on Ultimate Capacity of Fixed Offshore Platforms Using Push Over Analyses." (In Farsi) Presentation at the 7th Annual Int'l Conf. of Civil Engineering, ICCE2006, Tarbiat M. University, Tehran, Iran, May 2006

Mohammed R. Bahaari (2002), "Numerical Examination of Compressive In-Place Strength of Corroded Plates". Presentation at the 30th Annual Conf. of the Canadian Society for Civil Engineering, CSCE2002, Montreal, Quebec, Canada June 5-8

Mohammed R. Bahaari and Archibald N. Sherbourne (2000) "Eight-Bolt Extended Bolted Connections". Presented at the 2000 Annual Conf. of the Canadian Society for Civil Engineering, CSCE2000, London, Ontario, Canada June 7-10

Mohammed R. Bahaari and Archibald N. Sherbourne (1997) "Finite Element Predictions of M-f of Endplate Bolted Connections". Presentation at the 1997 SSRC Annual Technical Session and Meeting, Toronto, Ontario, Canada, June 9-11, 1997