



Shapour is a keen structural engineer with broad technical, managerial and leadership abilities

**Key Skills:**

General Management  
 Business Development  
 Multi-discipline Project Leader  
 Team Development  
 Project Management  
 Expert Witness

Structural Behaviour  
 Structural Modelling  
 Structural Design

Seismic Design  
 Dynamic Behaviour

Full scale testing  
 Instrumentation  
 Monitoring  
 Load Testing

Assessment  
 Strengthening

**Dr Shapour Mehrkar-Asl**  
 BSc(Hons), MSc, PhD, CEng, MICE, FIStructE

<b>Born</b>	1957	<b>Nationality</b>	British
<b>Location</b>	UAE	<b>Contact</b>	+971 50 6576 809
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**Career Outline**

I have over thirty years of experience in the analysis and design of structures. I initially worked in Iran on the design of steel and concrete buildings against earthquake. I went to the United Kingdom in 1984 for a Masters Degree on Structures. I obtained my Doctorate from University of Surrey in 1988 and started working for Gifford and Partners. My work during this period included from inception, analysis, design, construction, assessment, strengthening, monitoring and even demolition of structures covering buildings and bridges. I also worked on design of buildings for Gifford in Dubai and Iran.

I joined Atkins Middle East between June 05 and January 07 as Head of Structural Design in their office in Dubai. I helped to develop the department by employing new staff and training plans, put a management system in place. Major projects in this period were Burj Dubai Lake Hotel, Al Mas tower, Palm Trump Tower, Palm Gateway, Towers in Dubai Marina, Towers in Jumeirah Lake.

I joined WSP Middle East Ltd which is part of WSP Group in January 2007. My initial role in the WSP UAE was to harmonise design and delivery in the business. At the same time I had been acting as the project director for a number of projects. I was then promoted to Director, Structures - Abu Dhabi to help with the expanding market. My last position was Project Director of Presidential Palace in Abu Dhabi.

From August to October 2010 I joined Saudi Diyar Consultants in Jeddah as a consultant as Head of Engineering activities internal and external to the company. I then started work as an advisor to Tat Group working from Dubai which led to becoming Development Manager and Technical Advisor to Alborz Tat Construction which is a subsidiary of the Tat Group. From March 2013, working in Kling Consult in their Dubai office as a Consultant assisting management and running major projects.

In addition, I have also been actively involved with the Institution of Structural Engineers activities since 2002 in the UK and UAE. I also serve as a member of the Advisory Board of the Department of Civil Engineering at the American University in Dubai School of Engineering since March 2011.

**Qualifications:**

BSc (Hons), Amir Kabir University, Tehran, Iran (1980)  
 MSc (Distinction), University of Surrey, UK (1985)  
 PhD, University of Surrey, UK (1988)

**Membership:**

Member of Institution of Structural Engineers, UK (1995)  
 Chartered Engineer (1995)  
 Member of Society for Earthquake and Civil Engineering Dynamics (1997)  
 Member of Institution of Civil Engineers, UK (2001)  
 Fellow of Institution of Structural Engineers (2002)

**Institution of Structural Engineers UK**

Committee Member of Southern Branch in UK 2002-2005  
 Engineer and Practice Committee 2002-2004  
 Council Member 2004-2005 & 2009 -2010 & 2013  
 Chairman of Southern Branch 2004-2005.  
 Part 3 Examiner 2003 to 2005.  
 Coordinator of IPD interviews in UAE since 2006.  
 Chairman of UAE Division 2009, 2010, 2013 & 2014  
 Sustainability Panel 2010 & 2011

## Special Courses

Practical Seismic Design and Repair of Structures: Imperial College 17-18 September 1997.

Seismic Design and Retrofit of Bridges: SECED and Institute of Structural Engineers, 22-23 June 2000.

FIB course on Strengthening with Externally Bonded FRP reinforcement – Behaviour, design and application, 4-5 May 2003, Athens, Greece.

## Summary of Employment History

### United Arab Emirates

March 2013 – Present      Consultant – Structural Engineering – Kling Consult in Dubai.

Jan 2011 to Jan 2013      Development Manager & Technical Advisor to ATC  
Nov – Dec 2010            Advisor Tat Group Chairman

### Saudi Arabia

Aug – Oct 2010            Saudi Diyar Consultants, Consultancy work as Head of Engineering Departments

### United Arab Emirates

2007 – May 2010          WSP Middle East Ltd, Director, Technical Director,  
2005 – 2007                WS Atkins, Head of Structural Department, Dubai

### United Kingdom

1988–2005                 Gifford and Partner - Engineer to Technical Director

### Education in UK

1985 -1988                PhD at, University of Surrey, UK  
1984 -1985                MSc Structures, University of Surrey, UK

### Iran

1983 -1984                Mojda and Associates, Senior Design Engineer  
1981 -1983                Iranian Air Force HQ, Engineer  
1976 -1981                Process Consultant Engineers, Student to Engineer

## Supplementary Information in the following pages

- Detailed Employment History
- List of Lectures Delivered
- List of Publications

## Detailed Employment History

### Kling Consult – United Arab Emirates

#### ■ **Consultant – Structural Engineering (Feb 13 – Present)**

Acting as a consultant with structural engineering background. Assisting the senior management for general company management, business development, quality control, proposals, expert structural input and handling major projects.

Handling as Design Director Jewel of the Creek project in Dubai with a total built up area of over 1,000,000 m<sup>2</sup>. It is a mix-use multi-discipline project covering Architectural & Engineering design plus Site Supervision.

### Alborz Tat Construction – United Arab Emirates

#### ■ **Development Manager & Technical Advisor (Jan 11 – Jan 13)**

Responsible to the board of the directors for the projects of the company mainly in Tehran-Iran dealing with international consultants and international contractors. Projects:

Iran Mall – 1,060,000 m<sup>2</sup>, value of about \$1 billion.

Mashhad Mall – 515,000 m<sup>2</sup>, value of about \$500 million.

HQ of Tat Bank – 32,000 m<sup>2</sup>, value of about \$50 million.

### Tat Group – United Arab Emirates

#### ■ **Advisor to Tat Group Chairman (Nov 10 – Dec 10)**

Advising on the methods of procurement of international consultants and contractors for the subsidiary of the group called Alborz Tat Construction.

### Saudi Diyar Consultants – Saudi Arabia

#### ■ **Consultancy work as Head of Engineering Departments (August 10 – Oct 10)**

Responsible for all the activities related to Engineering Departments (Structural, Mechanical, Electrical, etc.) covering system development, coordination, resource management, quality assurance, training, budget control, technical (structural) and reporting to General Manager.

### WSP Middle East LTD –UAE

#### ■ **Director – Structure - Abu Dhabi (Feb 08 – May 10)**

- Presidential Palace in Abu Dhabi
- Yas Island Abu Dhabi - Hotels H1 and H2 - Rezidor
- Yas Island Abu Dhabi - Warner Brother and South Hotel

#### ■ **Technical Director – (Feb 2007 – Jan 08)**

Main roles in the WSP UAE are to review and help to develop the following:

- Review Project Life Cycle from the structural design point of view
- Harmonise design approach in different offices

- Identify training needs
- Help the management for future growth of the company
- Lead the technical excellence in the company

WS Atkins & Partners Overseas – UAE

■ **Head of Structural Department – (May 05 – Jan 07)**

Leading a team of over 25, producing innovative solutions for high-rise developments and complex structural designs. Since joining in June 2005, the team expanded to over 55 staff by Jan 2007. Major tasks were:

- Setting up a management system for workload, reviews & resources in the department
- Identify staff to fill in key roles in the technical and managerial positions
- Employ new staff to fill in the technical and managerial key positions
- Setting up a technical training programme for the department
- Mentor and train key staff for succession of the department and their future roles
- Increase the self-confidence and sense of pride in the work produced in the staff
- Help to promote the department internal and external to the company
- Work with the company management to harmonise interaction with other disciplines

Major Projects in this period were:

- A number of towers in Jumeirah Lake Towers including Al Mas tower and 8 other towers,
- A number of towers in Business Bay including Iris Bay
- A number of towers in Dubai Marina
- Burj Dubai Lake Hotel as part of Burj Dubai Complex of buildings.
- A number of major projects in Palm Island, Trump Tower, Gateway, Emerald Palace
- A few towers on Jumeirah Beach Residence
- Light House (DIFC) (scheme)
- Wheel Hotel (Scheme)

When I left, I helped to put in place the succession and make the new management team, which basically consisted of a few long standing staff in the department, confident and supported for their new challenges. The hand over was smooth, and staff moral and confidence in the new management system were strengthened by my involvement.

Other activities:

Representing Atkins in Pakistan in two trips having press and TV interviews after the earthquake in 2005 to provide assurances to the public that high rise buildings designed to international codes are safe. Publishing information on earthquake design to be understood by general public for the Pakistani company who has sponsored the trips.

Coordinator for the Part 3 Exam interviews in UAE on behalf of the Institution of Structural Engineers of UK.

Gifford and Partners – UK (1988 to 2005)

■ **Technical Director – (2002 – 2005)**

Selected Assignments:

- Expert advice after failure of precast pretensioned concrete slab units in a car park in Glasgow for the contractor. (2005)
- Project Director for Cat III check of Car Dyke Crossing Bridge, a tied arch bridge with the span of 75m with two wide lanes. Jacobs Babbie has carried out the design. (2005)
- Project Director for Cat III check of Boston Haven Bridge, a tied arch bridge with the span of 54m with two wide lanes. Jacobs Babbie has carried out the

- design. (2005)
- Project Director for the inspection and assessment of three underground stations for London Underground. (2004-5)
- Project Director for BA79 intervention for the London East Anglia Region railway over bridges to find interim measures until strengthening is achieved. (2005-5)
- Project Director for Assessment of the effect of dewatering system on Govan Tunnel in Glasgow working with Keller contractor. (2005)
- Project Director for Cat III Coulsdon Town Improvement Scheme, including A jacked under railway structure, footbridge and approach cuttings. Scott Wilson has carried out the design and contractor has been Hochtief UK. (2004-5)
- Lead Designer for the Vertical elements of towers at the Jumeirah Beach Residence 6 in Dubai through Gifford office in Dubai. (2004)
- Project Director and Business Development Manager for the work in Iran. Work has been concentrated on Seismic Retrofitting of Structures, Advice on Post-tensioning of buildings and bridges and Seismic, Fire and Explosion Assessment of Petrochemical Industry. (2003)
- Project Director for Bridgeguard 3 programme of assessment work being managed on half the country for Network Rail by Gifford. (2003).
- Project Director responsible for the Railway work with Galliford, Birse and MayGurney. Project under study include Wirral Bridges, Argyle Bridge, Holgate Road Bridge, etc.
- Gifford bid leader in conjunction with JacobsGIBB for railway infrastructure Felixstowe to Nuneaton freight route capacity enhancements. Task Leader for the preparation of Form A to level 4 for all the structures in this contract.
- Project Manager for the Non-linear analysis of through girder bridges as part of Bridge Guard 3. (2002).

■ **Associate – (1999 – 2002)**

Selected Assignments:

- Project Manager for the Category 3 Check of a new box culvert at Junction 15A on the M1 Motorway Designed by Halcrow constructed by Edmund Nuttall in collaboration with John Ropkins. The design comprises jacking the completed box culvert with a cross sectional dimension of 8x14m with a length of 45m using a force of the order of 4500 tonnes. The Category 3 Check was later extended to include the Jacking Shield and all the temporary works.
- Design of the 30000 tonne Ship Impact on the upstream of Surrey Pier of Hungerford Millennium Bridge in London. (2001-2002)
- Design engineer for some of the bridges on A120/M11 junction 8; a Design and Build contract with May Gurney. (2001-2002)
- Project manager for the Tender Design of Thurrock Viaduct, a 1000m external post-tensioned glued segmental bridge part of CTRL contract 310 with Tracklink. (2001)
- Expert advise on concrete repair carried on Multi-Storey Car Park in Jersey a point of dispute between main contractor and its sub-contractor. (2000-2002)
- Project Manager for Repair and Strengthening of Tanner Row Multi-Storey Car Park in York requiring concrete repair, architectural, mechanical and electrical upgrading. (1999)
- Dynamic analysis of a proposed cable stay bridge of 420m clear span over Panama Canal, in order to assess Earthquake vulnerability. (1999)
- Independent internal review of the dynamic analyses of a wire rope safety fence which has been carried out using explicit dynamic solvers to predict behaviour in advance of full scale testing. (1999)
- Project Manager for assessment and monitoring of M1/M6 Catthorpe Interchange Bridge including assessment, special inspection of damaged hinges, design of a remote monitoring system, ongoing monitoring and assistance to provide input in the research work required to establish behaviour of critical hinges in the bridge. This project is subject to Category 3 check by Ove Arup and Partners. (1999-2002)
- Project Manager for the Puttesund Bridge in Norway, a 140m balanced cantilever construction suffering from excess deflection and shear deficiency including determination of in situ concrete stresses, design of a monitoring system during the lifting of the bridge, check of the design of the strengthening

- system to convert the bridge to a cable stay bridge. (1999-2000)
- Design of the remote monitoring of the Somerset House to determine the rate and level of ongoing settlement and cracking in the structure. (2000-2002)
- Design Check Engineer for the Canons Park, Stanmore Bridge carrying London Underground (LUL) including abutment stabilisation system, strengthening piles and abutment, replacement bearings and assistance in site supervision during lifting the bridge and replacement of the bearings. (1999)
- Project Manager and Engineer for the dynamic analysis of the Gateshead Millennium Bridge in Newcastle to determine the loads and accelerations on the structural components during the opening and closing of this 110m span lifting footbridge. (1999-2001)

■ **Principal Engineer – (1991 – 1999)**

Selected Assignments

- Project Manager for assessment including load testing of Welland concrete arches on A1 at Stamford to BD 21/97, BA 54/94 and Guidelines for the Supplementary Load Testing of Bridges.
- Project Manager for the inspection and assessment of 14 bridges on M20, Junctions 3 to 5, for Kent County Council including Special Inspection of 8 post-tensioned bridges (1998-1999).
- Reviewer, Auditor, Advisor and Technical and Approval Authority for the rail over bridges (Bridge Guard 3) for Rail Track for half of England and Wales.
- Project Manager for the Battersea Yard Bridge, working with Rail First and Rail track to infill the existing bridge (1998-1999).
- Acting as TAA for Rail track assessment works conducted by a number of consultants and joint ventures in the UK since 1998. Advisor and reviewer on the Guidelines for the Supplementary Load Testing of Bridges published by Thomas Telford for the Institution of Civil Engineers National Steering Committee for the Load Testing of Bridges, 1998.
- In situ load testing of the Dee Crossing (cable-stayed) to compare against theoretical behaviour and provide design guidelines as part of a Link Monitoring Project (1998).
- Assessment of Earthquake vulnerability of MOD married quarters in Cyprus for strengthening and dynamic testing in order to determine the actual performance of masonry and precast concrete panel buildings. (1997)
- In situ stress determination of a number of bridges in the UK by training Messrs Sandberg in the use of his technique. The structures that have been jointly tested include A3 Tolworth Junction Bridges, Piper Building London, Soar River Bridge, Clifton Bridge and Huntingdon Viaduct.
- Lead assessor for the BD21/93 assessment of a number of bridges for Rail track in Kent, Wandsworth and Bromley. Responsible for the assessment and strengthening of over 30 bridges to BD21/84, BD 21/93, DB37/88 and BD44/90 such as Chieveley Interchange Bridges at Junction 13 of the M4 motorway, Catthorpe Interchange at Junction 19 between the M1/M6 motorways, bridges on M54 motorway, M20 between junctions 3 to 5 and Queenhill Viaduct Category Check for Howard Humphries.
- Design of longitudinal beams of 100-span Kwai Chung Viaduct in Hong Kong: multi-stage construction, pre and post-tensioned with precast and in situ concrete elements. Responsible for strengthening of all bridges on the M25 motorway between Junctions 8 and 10: a Design and Build contract with Balfour Beatty.
- Considerable experience in static and dynamic analyses using Finite Element programs such as LUSAS (for structures) and CRISP (for soil structure interaction). A major dynamic analysis of a proposed cable-stayed bridge in Hong Kong was performed in 1994. Soil-structure interaction of foundation of Second Severn Bridge and the Severn Tunnel, and the effect of embankment construction on the high voltage buried cables at the Dee Crossing (cable-stayed) were investigated using CRISP program.
- Project Manager and Engineer for load testing or in situ stress measurement of more than 20 bridges, such as the Medway Bridge on M2, Sfrsund Bridge (Norway), New Haw Viaduct on M25, Kingston Bridge in Glasgow, A3/A31 Flyover Guildford, Cavendish Bridge (A6) and Blackburn Road Viaduct at Junction 34 M1 North for TRL. Blackburn Road Viaduct was later demolished.

- Involved in the Special Inspection of post-tensioned concrete bridges from originating the BA 50/93 to its use on bridges such as New Haw Viaduct, Morants Court Bridge on the M25 and eight bridges in Northern Ireland.

■ **Senior Research Engineer – (1989 – 1991)**

**Selected Assignments**

- Engineer for the assessment of two post-tensioned bridges on the M20 motorway. Performing non-linear and dynamic finite element analysis of a wide variety of concrete and steel structures such as crash barrier analysis for Conder using LUSAS and NISA finite element package programs.
- Project Manager and Engineer for load testing or in situ stress measurements of more than six bridges such as the 30-span Langstone-Hayling Island Viaduct and the 10-span Angel Road Railway Bridge, A406. In addition, involved with the in situ stress measurement of more than six other bridges including the Tanagro III Bridge in southern Italy. Involved with the demolition of Ashchurch Water Tower and part demolition and reinstatement of post-tensioning for Hatfield Hyperbolic paraboloid concrete roof.

■ **Research Engineer – (1988 – 1989)**

**Selected Assignments**

- Project Engineer for the assessment of a 21 span ASR affected bridge carrying the M1 motorway close to the River Trent subject to Category 3 check. Involved with the assessment and responsible for the strengthening and repair works on the Rothersthorpe Bridge which carries the M1 motorway over the A43, Blisworth by-pass. Research and development team involved in the assessment, repair and monitoring of structures. Member of a team for the assessment of in situ stresses in a prestressed water tower at Ashchurch, Army Vehicle Depot.

Mojda and Associates, Iran

■ **Senior Design Engineer – (1983 – 1984)**

**Responsibilities Include**

- Consultant Engineers, Tehran-Iran Work included development of a CAD system for RC buildings. Analysis and design of a University, covering an area of 30,000 m<sup>2</sup> using the system developed.

Air Force Head Quarters, Iran

■ **Engineer – (1981 – 1983)**

- Engineer for the construction of residential buildings for Air Force personnel.

Process Consultant Engineering, Iran

■ **Design Engineer – (1976 – 1981)**

Work in Iran was on the design of steel, concrete and masonry building in a high seismic zone.

- Office buildings in steel and concrete, up to 18 stories.
- Three regional 600 bed hospitals with ancillary buildings up to 14 stories.
- Seismic upgrading a 600 bed hospital designed in steel.
- Small to medium range private houses.

List of Lectures Delivered

Presentation of papers and lectures on in-situ stress determination and load testing, such

as Gifford and Partners' Seminar on Post-tensioned Bridges.

Oxford University March 1991 "Appraisal and Strengthening of Bridges".

Launch of the Guide Lines on Supplementary Load Testing, ICE, Nov. 1998.

Seminars at Road and Transportation Research and Training Centre of Iran in November 1999 and May 2000 on the construction and load testing of Pont Sir Y Flint (North Wales) and strengthening of Kingston Bridge in Glasgow.

Seminars at Planning and Budget Organisation of Iran November 1999 on analysis and strengthening of masonry structures against seismic loads.

Demolition 'from cradle to grave' Institution of Structural Engineers, 14 March 2001.

Presentation of Papers in the 1st Conference on Strengthening and Retrofitting of Structures", University of Amir-Kabir, Tehran-Iran, 6 to 8 May 2002

Seminar at Sharif University in Iran on 17 November 2001 on the Construction of Gateshead Millennium Bridge in Newcastle UK. This was repeated at Road and Transportation Research and Training Centre of Iran in August 2003.

Esteghlal Grand Hotel South Tower – Seismic Retrofitting Seminar – 22 June 2003. Tehran-Iran

Seminar to Housing Foundation of Iran in August 2003 on the seismic retrofitting of structures.

Seminar on Advanced Technology in Building and Civil Engineering Industry in Tehran-Iran, 30 November 2003, speaking on Prestressed Concrete Buildings and Water tanks, and Inspection and Maintenance of Prestressed Structures.

Seminar to National Iranian Oil Company on Seismic, Fire and Explosion Assessment, in Tehran-Iran, 6 December 2003.

Seminar on Advanced Technology in Building and Civil Engineering Industry in Tehran-Iran, 17 January 2005, speaking on Strengthening Post-tensioned bridges.

## List of Publications

1. "Multinormic Problems". MSc Dissertation, University of Surrey, September 1985.

2. Lindsell, P., Buchner, S.H. and Mehrkar-Asl, S.  
"Stresses in the Channel Tunnel Linings". Final report for Gage Technique/Mott Hay & Anderson, November 1986.

3. "Direct Measurement of Stresses in Concrete Structures". PhD thesis, University of Surrey, September 1988.

4. Brookes, C.L., Buchner, S.H. and Mehrkar-Asl, S.  
"Assessment of Stresses in Post-tensioned Concrete Bridges". International Conference on Bridge Management, University of Surrey, Guildford. Edited by Harding, J.E., Park, G.A.R. and Ryall, M.J. Published by Elsevier Applied Science, pp 439-446, March 1990.

5. Lindsell, P., Buchner, S.H. and Mehrkar-Asl, S.  
"The Assessment of Segmental Concrete Bridges", Second International Conference on Bridge Management, University of Surrey, Guildford. Edited by Harding, J.E., Park, G.A.R. and Ryall, M.J. Published by Thomas Telford, pp690-699, April 1993.

6. Mehrkar-Asl, S.  
"Testing and Assessment of Post-Tensioned Concrete Bridges in Hampshire" in "Bridge



Assessment, Management and Design" Proceedings of the Centenary Year Bridge Conference, Cardiff. Edited by Barr, B.I.G. and Evans, H.R. Published by Elsevier, pp347-352, September 1994.

7. Mehrkar-Asl, S and Brookes, C.L.

"Load Testing in Bridge Assessment", Proceedings of the City University International Seminar, London 1-3 July 1996, "Structural Assessment: The Role of Large and Full Scale Testing" Edited by Viridi, K.S., Garas, F.K., Clarke, J.L. and Armer, G.S.T, Published by E & FN Spon, 1997, pp45-52.

8. Mehrkar-Asl, S.

"Concrete Stress-relief Coring: Theory and Application". Proceeding of FIP Symposium 1996, London, UK, 25-27 September 1996, "Post-tensioned Concrete Structures", pp 569-576.

9. Brookes, C.L. and Mehrkar-Asl, S.

"Numerical modelling of masonry using discrete elements". Proceeding of the sixth SECED conference on "Seismic Design Practice into the Next Century" Oxford/UK/26-27 March 1998. Edited by E Booth, Published by A. A. Balkema/Rotterdam/Brookfield, pp131-137

10. Mehrkar-Asl, S. and Ricketts, N.

"Load Testing of Pont Sir Y Fflint", Hidden Strength Conference 17 November 1998, paper presented at the Surveyor's conference, ICE London.

11. Mehrkar-Asl, S. and Bolton, I.R.

"Assessment of Bridges Using Supplementary Load Testing", CONCET '99, Sixth International Conference on Concrete Engineering Technology, 29 June - 1 July 1999, Malaysia, The Institution of Engineers, Malaysia.

12. Mehrkar-Asl, S. "Supplementary Load Testing in Assessment of Bridges", Presented in Concrete 2000 conference at Amir-Kabir University, Tehran-Iran, May 2000. Paper not published in the proceedings of the conference.

13. Mehrkar-Asl, S. "Monitoring to Prolong Service Life", Proceeding of the 4th International Conference on Bridge Management Edited by Ryall, M.J., Park, G.A.R and Harding, J.E., University of Surrey, 16-19 April 2000, Published by Thomas Telford, pp137-144.

14. Webster, PM and Mehrkar-Asl, S. "Battersea Yard - Bridge Infill Project", Proceeding of the Railway Engineering -2000 on CR-ROM, ECS Publications, July 2000.

15. Brookes, C. L. and Mehrkar-Asl, S.

"Numerical Modelling of reinforced masonry to enhance seismic resistance", Presented in the 1st Conference on Strengthening and Retrofitting of Structures", University of Amir-Kabir, Tehran-Iran, 6 to 8 May 2002.

16. Bohloulzadeh, E., Broad, A. and Mehrkar-Asl, S.

"Strengthening Structures Using Carbon Fibre Reinforced Polymer", Presented in the 1st Conference on Strengthening and Retrofitting of Structures", University of Amir-Kabir, Tehran-Iran, 6 to 8 May 2002.

17. Tilley, DG., Keogh, PS. , Mutch, K., Robotham, M., Curran, P. and Mehrkar-Asl, S.

"Making the eye blink - modelling the operation of the Gateshead Millennium Bridge", Proc. Instn Mech Engrs, Vol 217, Part C, J Mechanical Engineering Science, 2003, pp 735-758.

18. Mehrkar-Asl, S., Brookes, C.L. and Ducketts, W.G.,

"Saving half though girder bridges using non-linear finite element", Proceeding of the 5th International Conference on Bridge Management organized by the University of Surrey, 11-13 April 2005, Thomas Telford, edited by Park, G.A.R and Disney, P. pp 345-352, 2005

19. Shahdadpuri, C., Mehrkar-Asl, S. and Chandunni, R.E. "DMCC Al Mas Tower - Structural Design", 8th International Conference on Multi-purpose High-Rise Towers and Tall Buildings, Abu Dhabi, UAE, 10-11 December 2007