

Curriculum Vitae

- **Personal**

Name: : **Alfarabi Mohammed Sharif**
Date of Birth : September 1, 1952
Place of Birth : Dammam, Saudi Arabia
Status : Married, 3 children

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- **Education**

D.Sc. in Civil Engineering, Washington University at St. Louis, Missouri, USA, 1982.
M.Sc. in Civil Engineering, King Fahd University of Petroleum & Minerals, 1978.
B.Sc. in Civil Engineering, King Fahd University of Petroleum & Minerals, 1974.

- **Employment**

Construction Engineer with ARAMCO in Dhahran, Saudi Arabia, 1974-1975.
Work Experience: Construction supervision of reinforced concrete buildings and cost estimates.

Graduate Assistant in Department of Civil Engineering, King Fahd University of Petroleum & Minerals, 1975-1977.
Work Experience: Grading homework for courses, teaching CE labs and conducting tutorial sessions.

Lecturer in Department of Civil Engineering, King Fahd University of Petroleum and Minerals, 1977-1978.
Work Experience: Teaching CE labs and conducting tutorial sessions.

Structural Engineer with the Realstate Development Bank, Dammam, Saudi Arabia, part time, 1976-1978.
Work Experience: Evaluating construction quality and assessment of the completed stages of construction.

Structural Engineer in Al-Zedan Consulting Engineering, Jeddah, Saudi Arabia, summers of 1975-1978.
Work Experience: Design of reinforced concrete buildings and construction supervision.

Assistant Professor at the King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 1982-1989.

Associate Professor at the King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 1990-1995.

Professor at the King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 1995-present.

Work Experience: Research & technical consultation to governmental and private agencies, teaching & research advising, and administrative duties as detailed below.

• Administrative Positions

Chairman of Civil Engineering Department at King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 1992-1996.

Work Experience: Develop and evaluate faculty members performance in teaching and research. Revise and update the civil engineering curriculum and labs facilities.

Manager, Materials and Building Technology Section, Research Institute, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 1996-1997.

Manager, Metrology, Standards and Materials Division, Research Institute, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 1997-1998.

Director, Center for Engineering Research, Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, 1998-2002.

Work Experience: The work involves interfacing with clients, marketing, planning, scheduling, maintaining equipment, costing, overseeing research activities and staff development, reviewing all reports, participating actively in research projects.

• Funded Research Projects

King Abdulaziz City for Science and Technology, A Study of Cracking of Concrete Bridge Decks in Saudi Arabia, SR 2,199,640.00, 1988.

British Council, Petrographical Study on Different Types of Concrete under Thermal Cycling, conducted at University of Manchester Institute of Science and Technology, 1989.

King Abdulaziz City for Science and Technology, Cathodic Protection for Concrete Bridge Decks in Saudi Arabia, SR 231,000.00, 1990.

King Fahd University of Petroleum and Minerals, Strengthening of Concrete Structures by External Reinforcement, SR 214,160.00, 1990.

King Fahd University of Petroleum and Minerals, Prediction of Corrosion Initiation Time for R/C Members in Eastern Saudi Arabia, SR 406,600.00, 1994.

Ministry of Communication Project, Assessment and Load Testing of Jamarat Bridge in Menna, SR 886,500.00, 1996.

Zuhair Fayeze Partnership, Evaluation of Airfield and Road Pavement Network of King Fahd Air Base, Taif, SR 1,500,000.00, 1996.

Zuhair Fayeze Partnership, Evaluation of Airfield and Road Pavement Network of King Khalid Air Base, Khamis Mushyt, SR 1,600,000.00, 1996.

SABIC, R&D, Riyadh, Investigation of Foundation Cracking at SABIC Plant in Jubail, SR 332,807.00, 1996.

Heckett Multiserver, Al-Jubail, Feasibility Study on the Use of Slag Aggregate in Portland Cement Concrete, SR 115,385.00, 1997.

Zuhair Fayez Partnership, Development of Preventive Maintenance Procedure for Royal Saudi Air Force Bases, SR 200,000.00, 1998.

HADEED, Al-Jubail, A Traffic Control Study at HADEED Plant, SR 210,000.00, 1998.

Zuhair Fayeaz Partnership, Evaluation of the Road and Airfield Pavement Network of Prince Abdullah Air Base, Jeddah, SR 1,096,000.00, 1999.

Zuhair Fayeaz Partnership, Evaluation of the Road and Airfield Pavement Network of Riyadh Air Base, Riyadh, SR 1,274,000.00, 1999.

SABIC, R&D, Riyadh, Comparative Study of the Performance of HADEED Quenched Steel Bars with other Products in the Market, SR 1,085,000.00, 2000.

Zuhair Fayeaz Partnership, Evaluation of the Road and Airfield Pavement Network of Prince Sultan Air Base, Al-Kharj, SR 1,300,000.00, 2000.

Saudi ARAMCO, Concrete Durability Research Study, SR 2,167,136.00, 2000.

Saudi ARAMCO, Effect of Quality of Indigenous Aggregates on Concrete Durability, SR 450,777.00, 2000.

Al-Jubail Petrochemical Co. (KEMYA), Space Utilization and Traffic Management Study of the Shipment Area of Al-Jubail Petrochemical Company (KEMYA), SR 320,000.00, 2000.

Saudi Aramco, Effect of Dust in Aggregate and the Chloride Concentration in Soil on Concrete Durability, SR 400,000.00, 2003.

Royal Commission for Jubail and Yanbu, Corrosion Research, SR 2,950,000.00, 2003.

Saudi Aramco, Durability of GFRP Bars Under Aggressive Local Exposure Conditions, SR 1,300,000.00, 2002-2005.

Saudi Aramco, Galvanic Anode Cathodic Protection for Steel in Concrete, SR 250,000.00, 2003-2005.

Saudi Aramco, Development of a Construction Material System for Sulfur Pits, SR 200,000.00, 2003-2006.

Royal Commission for Jubail and Yanbu, Corrosion Research, SR 2,900,000.00, 2003-2006.

Royal Commission for Jubail and Yanbu, Corrosion Research, SR 2,960,000, 2006-2010.

King Fahad University of Petroleum & Minerals , The Improvement of Research Policies , Procedures and Organizational Structure of KFUPM, SR 57,000 , 2006.

- **Professional Consultations**

PETROMIN, Study the Cracking of the Ring Beam Foundation Elements in Reservoir Tanks in

Eastern Province, 1987.

Al-Yafi Consulting Engineering Office, Evaluate Strength of a Multi-Storied Reinforced Concrete Building in Jeddah, 1987.

Ministry of Communications, Study a Fire Damaged Bridge in Madinah, 1988.

Ministry of Communications, Study on Cracking of Seat Beams and Backwalls of Bridges in Eastern Province, 1988.

Saudi Arabian Dames & Moore, Investigating and Assessing the Safety of the Saudi Kuwaiti Cement Factory Buildings and Advise on the Repair Scheme, 1990

Al Waha Shopping Center Owner, The Beam-Corbel Connection of Al Waha Shopping Center, Dammam, 1993.

Royal Saudi Naval Forces, Assess the Quaywall Blocks Stability for the Jetty at King Abdulaziz Naval Base, 1994.

Civil Defence, Investigate Failure of Silos in Dammam, 1996.

Alyafi Consulting Engineering Office, Assessment and Repair of Reinforced Concrete Buildings, 2005-2006.

- **Technical Committees**

Organizing Committee of the Second Saudi Engineers Conference, King Fahd University of Petroleum and Minerals, Dhahran, 1984.

Exhibition Committee of the Second Saudi Engineers Conference, King Fahd University of Petroleum and Minerals, Dhahran, 1984.

Technical committee of the Third IRF Middle East Regional Meeting in Riyadh, Ministry of Communications, 1988.

Conference Chairman on Maximizing Profits and Productivity in Gulf Construction, Dubai, 10-13 Oct. 1994.

Technical Committee on Theme Issue of Arabian Journal for Science and Engineering on Concrete Repair, Rehabilitation and Protection, 1997.

Member of Scientific Council at King Fahd University of Petroleum and Minerals, Dhahran, 1997-2001.

Co-chairman of technical committee "Mechanical and Civil Engineering" to coordinate research activities between KFUPM and Saudi ARAMCO, 1997-present.

Chairman of technical committee "Two-day Workshop in KFUPM sponsored by Ministry of Higher Education", October 1999.

- **Professional Membership**

American Society of Civil Engineers (ASCE).
American Concrete Institute (ACI), Saudi Chapter.

Al-Mohandis Engineering Committee.
The Saudi Umran Society.

- **Professional Development**

Attended many international and national conferences related to concrete durability, structural assessment, Bridge rehabilitation and structural repair.

Attended a two-week short course "16th Annual Battelle Int'l Program in R&D Management", BATTELE, Columbus, Ohio, USA, 11-22 August, 1997.

- **Publications**

P.K. Basu, Alfarabi Sharif and N.U. Ahmed, Partially Prestressed Continuous Composite Beams. I", *Journal of Structural Engineering*, ASCE, Vol. 113, No. 9, Sept. 1987, pp. 1909-1925.

P.K. Basu, Alfarabi Sharif and N.U. Ahmed, "Partially Prestressed Composite Beams. II", *Journal of Structural Engineering*, ASCE, Vol. 113, No. 9, Sept. 1987, pp. 1926-1938.

M.H. Baluch, A.K. Azad, M.Y. Al-Mandil, Alfarabi Sharif and D. Pearson-Kirk, "Performance of Ferex-100 Cathodic Protection System in the Gulf Environment", *Arabian Journal of Science and Engineering*, Vol. 14, No. 2, April 1989, pp. 261-270.

A.J. Al-Tayyib, M.H. Baluch, Alfarabi Sharif and M.M. Mahamud, "The Effect of Thermal Cycling on the Durability of Concrete Made From Local Materials in the Arabian Gulf Countries", *Cement Concrete Research*, Vol. 19, No. 1, 1989, pp. 131-142.

M.H. Baluch, L.A. Al-Nour, A.K. Azad, M.Y. Al-Mandil, Alfarabi Sharif and D. Pearson-Kirk, "Concrete Degradation Due to Thermal Incompatibility of Its Components", *Journal of Material in Civil Engineering*, ASCE, Vol. 1, No. 3, Aug. 1989, pp. 105-118.

Alfarabi Sharif, M.H. Baluch and Khalid Khan, "Development of Latex Modified Concrete in Saudi Arabia: Material Aspect", *Arabian Journal for Science and Engineering (AJSE)*, Vol. 15, No. 1, Jan. 1990, pp. 35-45.

M.Y. Al-Mandil, M.H. Baluch, A.K. Azad, Alfarabi Sharif and D. Pearson-Kirk, "Categorization of Damage to Concrete Bridge Decks in Saudi Arabia", *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers (ASCE), Vol. 4, No. 2, May 1990, pp. 100-110.

Alfarabi Sharif, M.H. Baluch, A.K. Azad, M.Y. Al-Mandil and Khalid Khan, "Performance of Latex Modified Concrete Overlay in the Gulf Environment", *Arabian Journal for Science and Engineering (AJSE)*, Vol. 15, No. 3, July 1990, pp. 413-423.

Alfarabi Sharif, "Confirmation of TICC Damage Hypothesis - A Petrographic Study", *ASCE Materials in Civil Engineering Journal*, Vol. 3, No. 3, Aug. 1991, pp. 179-188.

A.K. Azad, M.H. Baluch, M.Y. Al-Mandil, Alfarabi Sharif and K. Kareem, "Loss of Punching Capacity of Bridge Deck Slabs from Crack Damage", *ACI Structural Journal*, Vol. 90, No. 1, Jan-Feb. 1993, pp. 37-41.

Alfarabi Sharif, Salah Taher and P.K. Basu, "Time-Dependent Losses in Prestressed, Continuous Composite Beams", *ASCE Structural Journal*, Vol. 119, No. 11, Nov. 1993, pp. 3151-3168.

Alfarabi Sharif, G.J. Al-Sulaimani, I.A. Basunbul, M.H. Baluch and B.N. Ghaleb, "Strengthening of Initially Loaded Reinforced Concrete Beams Using FRP Plates", *ACI Structural Journal*, Vol. 91, No. 2, March-April 1994, pp. 160-168.

G.J. Al-Sulaimani, Alfarabi Sharif, I.A. Basunbul, M.H. Baluch and B.N. Ghaleb, "Shear Repair for Reinforced Concrete Beams by Fiberglass Plate Bonding", *ACI Structural Journal*, Vol. 91, No. 4, July-August 1994, pp. 458-464.

Y.N. Ziraba, M.H. Baluch, I.A. Basunbul, Alfarabi Sharif, A.K. Azad and G.J. Al-Sulaimani, "Guidelines Towards the Design of RC Beams with External Plates", *ACI Structural Journal*, Vol. 91, No. 6, November-December 1994, pp. 639-646.

M. Hussain, Alfarabi Sharif, I.A. Basunbul, M.H. Baluch and G.J. Al-Sulaimani, "Flexure Behavior of Precracked RC Beams Strengthened Externally by Steel Plates", *ACI Structural Journal*, Vol. 92, No. 1, January-February 1995, pp. 14-22.

Salah Taher and Alfarabi Sharif, "Creep Loss Variation in Prestressed Concrete Beams", *Magazine of Concrete Research*, Vol. 47, No. 172, Sept. 1995, pp. 263-269.

Alfarabi Sharif, G.J. Al-Sulaimani, I.A. Basunbul, M.H. Baluch and M. Hussain, "Strengthening of Shear Damaged R/C Beams by Externally Bonding Steel Plates", *Magazine of Concrete Research*, 47, No. 173, Dec. 1995.

Y.N. Ziraba, M.H. Baluch, Alfarabi Sharif, G.J. Al-Sulaimani, A.K. Azad and I.A. Basunbul, "Modelling of Damaged RC Beams Strengthened by Fibre Composite Plates", *Journal of Engineering Computations*, Vol. 12, No. 7, Oct. 95, pp. 619-640.

Y.N. Ziraba, M.H. Baluch, I.A. Basunbul, A.K. Azad, G.J. Al-Sulaimani and Alfarabi Sharif, "Combined Experimental-Numerical Approach to Characterization of Steel/Glue/Concrete Interface", *Materials & Structures Journal*, RILEM, France, Vol. 28, No. 183, Nov. 1995, pp. 518-523.

M.H. Baluch, Y.N. Ziraba, A.K. Azad, Alfarabi Sharif, G.J. Al-Sulaimani and I.A. Basunbul, "Shear Strength of Plated R/C Beams", *Magazine of Concrete Research*, Vol. 47, No. 173, Dec. 1995, pp. 369-374.

Alfarabi Sharif, A.K. Azad, C.M. Navaz and K.F. Loughlin, "Chloride Diffusion Coefficient of Concrete in the Arabian Gulf Environment", *AJSE Journal*, Vol. 22, No. 28, Oct. 1997, pp. 169-182.

Alfarabi Sharif, K.F. Loughlin, A.K. Azad and C.M. Navaz, "Determination of the Effective Chloride Diffusion Coefficient in Concrete Via a Gas Diffusion Technique", *ACI Materials Journal*, Vol. 94, No. 3, May-June 1997, pp. 227-233.

W.M. Elleithy, Alfarabi Sharif, O.S.B. Al-Amoudi, M. Maslehuddin and A. K. Azad, "Effect of Holidays and Damage to FBEC on Reinforcement Corrosion", *Construction and Building Materials Journal*, Vol. 12, 1999, pp. 185-193.

W.M. Elleithy, Alfarabi Sharif, O.S.B. Al-Amoudi, M. Maslehuddin and A. K. Azad, "Effect of Thermal Variations on Bond Strength of Fusion-Bonded Epoxy Coated Bars", *Cement, Concrete and Aggregates Journal*, Vol. 20, No. 1, June 1999, pp. 163-168.

W.M. Elleithy, Omar S.B. Al-Amoudi, Alfarabi Sharif and M. Maslehuddin, "Corrosion Resistance and Bond Strength of Epoxy-Coated Steel Bars", *AJSE Journal*, Vol. 23, No. 2C, Dec. 1999, pp.

141-154.

M.M. Al-Zahrani, S.U. Al-Dulaijan, M. Ibrahim, H. Saricimen and A.M. Sharif, "Effect of Waterproofing Coatings on Steel Reinforcement Corrosion and Physical Properties of Concrete", Special Issue on Corrosion and Steel in Concrete, *International Journal of Cement and Concrete Composites*, Vol. 24, 2002, pp. 127-137.

M. Maslehuddin, Alfarabi Sharif, M. Shameem, M. Ibrahim and M.S. Barry, "Comparison of Properties of Steel Slag and Crushed Limestone Aggregate Concretes", *Construction and Building Materials Journal*, Vol. 17, No. 2, March 2003, pp. 105-112.

S. Al-Dulaijan, M. Maslehuddin, M. Al-Zahrani, Alfarabi Sharif, M. Shameem and M. Ibrahim, "Sulfate Resistance of Plain and Blended Cements Exposed to Varying Concentrations of Sodium Sulfate", *Cement and Concrete Composites Journal*, Vol. 25, Issue 4-5, 2003, pp. 429-437.

M. Maslehuddin, M. Al-Zahrani, S. Al-Dulaijan, Alfarabi Sharif, M. Shameem and Ahsan, "Mechanical Properties of Corrosion of Water-quenched and Air-cooled Steel Bars", *Construction and Building Materials Journal*, Vol. 17, Issue 2, March 2003, pp. 105-112.

Alfarabi Sharif, Rahman, M.K., Al-Gahtani, A.S., Hameeduddin, M. "Behavior of Patch Repair of Axially Loaded Reinforced Concrete Columns", *Cement and Concrete Composite Journal*, Vol. 28, Issue 8, 2006, pp. 734-741.

D. Pearson-Kirk, A.K. Azad, M.H. Baluch, M.Y. Al-Mandil and Alfarabi Sharif, "Vehicular Loading on Highway Structures", *Proceedings of Second Saudi Eng. Conference*, Dhahran, Saudi Arabia, Nov. 1985, pp. 1415-1441.

Alfarabi Sharif, K. Iqbal, A.K. Azad, M.H. Baluch, M.Y. Al-Mandil, D. Pearson-Kirk and Y. Ziraba, "Latex Modified Concrete as a Bridge Deck Overlay", *Proceedings, Symposium on Concrete and Concrete Structures in the Middle East*, Vol. I, Riyadh, Saudi Arabia, April 1987, pp. 213-228.

M.Y. Al-Mandil, D. Pearson-Kirk, Alfarabi Sharif, A.K. Azad, M.H. Baluch and Y. Ziraba, "Non-Structural Cracking in Concrete", *Proceedings, Symposium on Concrete and Concrete Structures in the Middle East*, Vol. II, Riyadh, Saudi Arabia, April 1987, pp. 622-638.

M.H. Baluch, A.K. Azad, M.Y. Al-Mandil, D. Pearson-Kirk, Alfarabi Sharif and Y. Ziraba, "A Technique for Estimating Concrete Strength in Bridge Decks", *Proceedings, Symposium on Concrete and Concrete Structures in the Middle East*, Vol. I, Riyadh, Saudi Arabia, April 1987, pp. 301-320.

D. Pearson-Kirk, M.Y. Al-Mandil, M.H. Baluch, A.K. Azad, Alfarabi Sharif and Y. Ziraba, "Truck Loadings for Design of Concrete Bridges in Saudi Arabia", *Proceedings, Symposium on Concrete and Concrete Structures in the Middle East*, Vol. II, Riyadh, Saudi Arabia, April 1987, pp. 514-528.

M.Y. Al-Mandil, A.K. Azad, M.H. Baluch, D. Pearson-Kirk and Alfarabi Sharif, "A Study of the Cracking of Concrete Highway Bridge Decks in Saudi Arabia", *Proceedings of 3rd IRF Middle East Regional Meetings*, Vol. 6, Riyadh, Saudi Arabia, February 1988, pp. 6.49-6.63.

A.K. Azad, M.H. Baluch, M.Y. Al-Mandil, Alfarabi Sharif, D. Pearson-Kirk and Kareem Kaiser, "Cracking and Failure of Deck Slab in Girder-Slab Bridges", *Proceedings, Symposium on Bridge Research in Progress*, Iowa State University, USA, September 1988, pp. 189-192.

Alfarabi Sharif, M.H. Baluch and I.A. Basunbul, "Effect of Thermal Cycling on Fiber-Reinforced

Latex Modified Concrete", *Proceedings of 3rd Arab Structural Engineering Conference*, Vol. 4, Al-Ain, United Arab Emirates, March 1989.

M.Y. Al-Mandil, A.K. Azad, M.H. Baluch, D. Pearson-Kirk and Alfarabi Sharif, "Localized Cracking of Concrete Bridge Decks in Saudi Arabia - A Case Study", *Proceedings of 3rd Arab Structural Engineering Conference*, Vol. 5, Al-Ain, United Arab Emirates, March 1989, pp. 377-405.

M.Y. Al-Mandil, A.K. Azad, M.H. Baluch, D. Pearson-Kirk and Alfarabi Sharif, "Punching Shear Failure of Concrete Girder-Slab Type Bridge Decks in Saudi Arabia", *Proceedings of International Conference on Structural Faults and Repair*, Vol. 1, London, England, June 1989.

Alfarabi Sharif, M.H. Baluch and I.A. Basunbul, "Effect of Thermal Incompatibility on Fiber Reinforced Latex Modified Concrete", *Proceedings of International Conference on Recent Developments in Fiber Reinforced Cements and Concretes*, University of Wales, Cardiff, Wales, September 1989.

Alfarabi Sharif, K. Iqbal, M.H. Baluch, A.K. Azad and M.Y. Al-Mandil, "Latex Modified Concrete as a Protective System", *Proceedings of the Third International Conference on Deterioration and Repair of Reinforced Concrete in the Arabian Gulf*, Vol. 1, Bahrain, 21-24 October, 1989, pp. 603-617.

A.K. Azad, M.H. Baluch, M.Y. Al-Mandil, Alfarabi Sharif, and D. Pearson-Kirk, "Durability Based Design of Bridge Decks in the Middle East Environment", *Proceedings of the Third International Conference on Deterioration and Repair of Reinforced Concrete in the Arabian Gulf*, Vol. 1, Bahrain, October 1989, pp. 701-715.

M.H. Baluch, L.A.R. Al-Nour, A.K. Azad, M.Y. Al-Mandil, Alfarabi Sharif, and D. Pearson-Kirk, "Damage Characterization of Thermally Degraded Concrete", *Proceedings of the Third International Conference on Deterioration and Repair of Reinforced Concrete in the Arabian Gulf*, Vol. 1, Bahrain, October 1989, pp. 543-560.

M.Y. Al-Mandil, A.K. Azad, M.H. Baluch, D. Pearson-Kirk and A.M. Sharif, "Diagnosis and Synthesis of Damage in Concrete Bridge Decks in Saudi Arabia", *Proceedings of the Third International Conference on Deterioration and Repair of Reinforced Concrete in the Arabian Gulf*, Vol. 1, Bahrain, October 1989, pp. 139-155.

M.Y. Al-Mandil, A.K. Azad, M.H. Baluch, Alfarabi Sharif and D. Pearson-Kirk, "Structural & Material Damage to Concrete Bridge Decks in Saudi Arabia", *Proceedings of the International Conference on Bridge Management*, Guildford, England, March 1990.

A.K. Azad, M.H. Baluch, M.Y. Al-Mandil, A.M. Sharif and D. Pearson-Kirk, "Design Criteria for Durable Concrete Bridges in the Gulf Region", *Proceedings of Third International Colloquium on Concrete in Developing Countries*, Beijing, May 8-12, 1990.

Alfarabi Sharif, "Effect of Admixtures in Reducing TICC Damages", *Proceedings of Third Saudi Engineering Conference*, Vol. 2, Riyadh, Saudi Arabia, 24-27 Nov. 1991, pp. 455-458.

M.Y. Al-Mandil, G.J. Al-Sulaimani, I.A. Basunbul and Alfarabi Sharif, "Evaluation of the Bond Characteristics for Various Concrete Overlay Systems", *Proceedings of Third Saudi Engineering Conference*, Vol. 2, Riyadh, Saudi Arabia, 24-27 Nov. 1991, pp. 465-468.

Alfarabi Sharif, Rasheeduzzafar, I. Basunbul and G. Al-Sulaimani, "Strength Evaluation of a Multi-Story Building", paper presented in the *Symposium on Buildings Deterioration in the Arab World and Methods of Repairs*, Ministry of Housing and Civil Works, Riyadh, Saudi Arabia, 1-3

March 1992 (in Arabic).

I. Basunbul, G. Al-Sulaimani and Alfarabi Sharif, "Repair and Strengthening of Reinforced Concrete Beams by Ferrocement", *Proceedings of the Symposium on Buildings Deterioration in the Arab World and Methods of Repairs*, Ministry of Housing and Civil Works, Riyadh, Saudi Arabia, 1-3 March 1992, pp. 481-490 (in Arabic).

A.K. Azad, M.H. Baluch, M.Y. Al-Mandil and Alfarabi Sharif, "A Study of the Punching Failure of Deck Slabs in Girder-Slab Bridges in Saudi Arabia", *Proceedings of the Fourth International Conference on Structural Failure, Durability and Retrofitting*, Singapore, 14-15 July 1993, pp. 3-9.

A.K. Azad, G.J. Al-Sulaimani, M.Y. Al-Mandil, Alfarabi Sharif and I.A. Basunbul, "An Assessment of Cathodic Protection for Concrete Bridges in Saudi Arabia", *Proceedings of the Fourth International Conference on Structural Failure, Durability and Retrofitting*, Singapore, 14-15 July 1993, pp. 191-198.

A.K. Azad, M.H. Baluch and Alfarabi Sharif, "Failure of Bridge Deck Slabs from Crack Damage", *Proceedings of Expertcenterum International Conference on Failure of Concrete Structures*, Bratislava, Slovakia, June 14-18, 1993, pp. 384-387.

Y.N. Ziraba, M.H. Baluch, Alfarabi Sharif, A.K. Azad, I.A. Basunbul and G.J. Al-Sulaimani, "Computational Model for Damaged R/C Beams Repaired by Externally Bonded Plates", *Proceedings of the Fourth International Conference on Structural Failure, Durability and Retrofitting*, Singapore, 14-15 July 1993, pp. 73-79.

Alfarabi Sharif, G.J. Al-Sulaimani, M.H. Baluch, I.A. Basunbul and B.N. Ghaleb, "Repair of Damaged R/C Beams Using Externally Bonded Fiberglass Plates", *Proceedings of the Fourth International Conference on Structural Failure, Durability and Retrofitting*, Singapore, 14-15 July 1993, pp. 621-628.

I.A. Basunbul, M. Hussain, Alfarabi Sharif, G.J. Al-Sulaimani and M.H. Baluch, "Repair of Shear Cracked R/C Beams with Bonded External Steel Plates", *Proceedings of the Fourth International Conference on Structural Failure, Durability and Retrofitting*, Singapore, 14-15 July 1993, pp. 629-634.

I.A. Basunbul, M. Hussain, Alfarabi Sharif, G.J. Al-Sulaimani and M.H. Baluch, "Repair of Shear Cracked R/C Beams with Bonded External Steel Plates", *Proceedings of the Fourth International Conference on Deterioration and Repair of R/C in the Arabian Gulf*, Bahrain, 10-13 October 1993.

Y.N. Ziraba, M.H. Baluch, I.A. Basunbul, Alfarabi Sharif, A.K. Azad and G.J. Al-Sulaimani, "Numerical Simulation of Repair of RC Beams", *Proceedings of the First Regional Conference & Exhibition on Advanced Technology in Civil Engineering*, Manama, Bahrain, 18-20 September 1994, pp. 141-167.

A.J. Al-Tayyib and Alfarabi Sharif, "The Gulf Environment and its Impact on Corrosion of Steel in Concrete", *Corrosion and Protection of Reinforced Concrete Conference*, Dubai, Oct. 1994.

Alfarabi Sharif, M.H. Hussain, I.A. Basunbul, M.H. Baluch and G.J. Al-Sulaimani, "Steel Plate Bonding as an External Reinforcement to Flexurally Damaged R/C Beams", *Proceedings of the 4th Saudi Eng. Conference*, Jeddah, Saudi Arabia, 1995.

Alfarabi Sharif, A.K. Azad, K.F. Loughlin and C.M. Navaz, "Evaluation of the Chloride Diffusion Coefficient in the Arabian Gulf Environment", *Proceedings of the ASCE-SAS Second Regional Conference & Exhibition on 'Save the Environment'*, Beirut, Lebanon, November 16-18, 1995.

A.K. Azad, Alfarabi Sharif, K.F. Loughlin and C.M. Navaz, "Prediction of Corrosion Initiation Time for R/C Structures in Eastern Saudi Arabia", *Proceedings of the ASCE-SAS Second Regional Conference & Exhibition on 'Save the Environment'*, Beirut, Lebanon, November 16-18, 1995.

M.H. Baluch, Alfarabi Sharif, M. Ashrafuddin, G.J. Al-Sulaimani and A.K. Azad, "Modes of Failure in Plated R/C Beams", *Proceedings of the ASCE-SAS Second Regional Conference & Exhibition on 'Save the Environment'*, Beirut, Lebanon, November 16-18, 1995.

Alfarabi Sharif and M.H. Baluch, "External FRP Plates to Strengthen Reinforced Concrete Beams", *Proceedings of First International Conference on Composite in Infrastructure*, Tucson, Arizona, USA., Jan. 15-17, 1996.

Alfarabi Sharif, K.F. Loughlin, A.K. Azad and C.M. Navaz, "Determination of the Effective Chloride Diffusion Coefficient in Concrete Via a Gas Diffusion Technique", paper accepted for publication in the *Proceedings of the International Congress on Creating with Concrete*, University of Dundee, Scotland, U.K.

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- **Teaching**

Undergraduate Courses: Statics, Structural Mechanics, Structural Analysis I, Steel Design I

Graduate Courses: Structural Stability, Prestressed Concrete Design, Behavior and Design of Steel Structures

Short Courses: Bridge Engineering, Inspection & Maintenance, In-Situ Nondestructive Testing of Concrete, and Inspection, Assessment and Maintenance of Concrete Structures.

- **Thesis Advising**

Ph.D. Dissertation

Ammar Khalil Mohammad Hafedh, A Generalized Theory for Bending of Thick Isotropic Rectangular Plates, 1989.

Mohammad Golam Ali, Criteria for Cathodic Protection of Steel in Concrete in the Context of Arabian Gulf Environment, 1991.

Yasin Naku Ziraba, Non-linear Finite Element Analysis of Reinforced Concrete Beams Repaired by Plate Bonding, 1993.

Mahmoud Hassan El-Boghdadi, Elasto-Plastic Analysis of Semi-Rigid Frames, 1997.

Mohammad Kalimur Rahman, Simulation and Assessment of Concrete Repair Systems, 1999.

Mohammad Aliyu Shazali, Computational Chemo-Damage Transport Modeling of Durability Synergies in Concrete, 2004.

Issam Abaker Mahmoud, Modeling of Precast Prestressed Hollow-Core Slabs Strengthened with FRRP, 2008.

Shaji M Scaria, Behavior of Horizontal Knee Connections, 2009.

M.Sc. Thesis

Asif Bashir Qureshy, Fatigue of Concrete in the Presence of a Crack, 1985.

Medhat Kamal Abdallah, Analysis of Horizontally Curved Pseudo Slab Type Bridge Deck Continuous Over Discrete Pier Supports, 1988.

Muhamed Muse Mahmoud, Durability of Thermal Incompatibility of Concrete Constituents Made From Local Materials in the Arabian Gulf Countries, 1988.

Khan Khalid Iqbal, Use of Latex Modified Concrete as a Bridge Deck Overlay, 1989.

Ali Ibrahim Al-Hejji, A Refined Theory For Symmetric Orthotropic Laminated Plates, 1989.

Emad Abul-Feilat, Optimum Design of Continuous Partially Prestressed Concrete Beams, 1990.

Zuhair Saqqat, Effect of the Concrete Strength and Aspect Ratio on the Torsional Behavior of Plain High Strength Concrete Beams, King Abdulaziz University, (chairman of examining committee), 1992.

Bader Ghalib, Strengthening Concrete Structures by External Fiber Glass Reinforcement, 1992.

Munawar Ali Hussain, Flexural and Shear Behavior of Damaged RC Beams by Plate Bonding, 1992.

Sadith Ali Khan, The Effect of Temperature and Salt Contamination on Corrosion of Reinforcing Steel in OPC and Blended Cement Concretes, 1993.

Muhammad Abdul-Wahhab Al-Khaled, Deterioration of Concrete Structures in the Coastal Regions of Yemen Republic, 1993.

Qureshi Abbas, Optimization of Continuous Post-Tensioned Bridge Decks of Prestressed Lengths, 1995.

Mohammad Ashrafuddin, Prediction of the Shear Peeling Failures in Plated RC Beams, 1995.

Mohammad Aliyu Shazali, Elasto-Plastic Collapse Load Analysis of Single Mitered Bends, 1995.

Ali Al-Turkey, Plastic Shrinkage of Fiber-Reinforced Concrete, King Abdulaziz University (chairman of examining committee), 1995.

Navaz Cheriya Malikkal, Chloride Diffusion in Concrete/Prediction of the Onset of Corrosion, 1995.

Wael Mohamed Elleithy, Bond and Durability of Fusion-Bonded Epoxy-Coated Steel Bars, 1995.

Rashad, Ifzal, A Study of the Relationship between Permeability and Tortuosity of Concrete, 1996.

Saleem Parvez, A Study on the Development of Vehicular Loading for Design of Highway Bridges in Saudi Arabia, 1998.

Mohammad Hameeduddin, Evaluation of Load Transfer in Axially Loaded Repaired Concrete Columns, 2002.

Salman Zafar, Influence of Temperature and Wind on Moisture Transport in Cementitious Materials, 2003.

- **Nominations/Awards**

- Nomination for Excellence in Teaching Award - 1987
- Excellence in Advising Award - 1992
- Excellence in Research Award - 1994
- HRH Prince Mohammad Bin Fahad Award - 2000
on project entitled "Comparative Study Performance of Hadeed Quenched Steel Bar with Products in Market"
- Distinguished Project Research Team Award - 2001
on project entitled "Concrete Durability Research Study"
- Excellence in Applied Research Project Award - 2004
on project "Corrosion Research"