

## **CURRICULUM VITA**

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**Name** : Iqbal Marie

**Address:** P.O.B. 961813- Sport City Jordan/Amman  
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**Academic:**

- M..Sc. Civil Engineering / Structure – College of Engineering and Petroleum- Kuwait University ( 1986. 1989).
- Bachelor of Civil Engineering – College of Engineering and Petroleum – Kuwait University (Jan. 1981).

**Experience:**

- July 1999- now lecturer in civil engineering department, college of engineering/ Hashemite University/ Jordan.
- 1996 - July 1999 lecturer in civil engineering department , college of engineering/ Applied Science University/ Jordan.
- 1994 - 1996 Structural Engineer in A.J.J. Consulting Engineers Office, Jordan

**Lecturer for the following:**

- Statics
- Structural Mechanics
- Strength of Materials
- Stability evaluation of structures
- Architectural arts
- Structure for architectural students
- Engineering drawing using AutoCAD
- Structure I
- Surveying
- Engineering Geology
- Engineering Statistics
- Building Materials
- Engineering Drawing
- Descriptive Geometry
- Visual communication
- Machine drawing
- Probability and statistics for engineers
- Building Materials Lab.
- Soil Mechanics Lab.
- Strength of Materials lab
- Experimental stress analysis lab
- Structure Models lab.
- Engineering geology Lab.
- Perspective principles

- 1992-1993 Civil Engineer, Nibras Engineering Office, Jordan
- 18/10/1981-1990, Lab Engineer, Civil Engineering Department / Kuwait University /Kuwait.
- Feb. 1981- 18/10/1981 Scientific Assistant , civil Engineering department, Kuwait University ( experimental stress analysis lab.)
- 1981- 1990, I worked as a part time research assistant for the:
  - Research Program Unit – Kuwait University
  - Kuwait Institute for Scientific Research
  - Kuwait Research station/ Kuwait Ministry of Public Work.
  - Kuwait Foundation for Advancement of Science.

**Memberships:** Jordanian Engineers Association

### **Local and Regional Contributions**

- Co-Chairman for Session 7 in the 5<sup>th</sup> Jordanian international civil engineering conference 17<sup>th</sup> -19<sup>th</sup> January 2012 , Land mark hotel, Amman .
- Member of the Technical Committee of the the 3rd IMS International Conference for Applications of Traditional and High Performance Materials in Harsh Environments , American University of Sharjah, January 23 – 24, 2008 Sharjah – UAE.
- Contribute in the workshop of the project of sorting solid waste in the Hashemite region, Tuesday 3/7/2007 - the urban village - the Hashemite Brigade. By "conservation of the environment by sorting solid waste"
- Contribute in the Workshop on "Meeting the Challenges of Culture of Deficiency', Jerusalem International Hotel, Aman / Jordan, Sunday 26/8/2007 by " The Culture of Deficiency and Employment in the Construction Sector"
- Write a community essay about "Electronic Conversation and its Impact on Society" Rose Magazine, First Issue, October 2005, p34
- Contribute in "the physics of buildings and environment protection syrian, egyptian and deutch workshop" by presenting ” Utilization of recycled scrap tires and glass in concrete mixes, 28-30 /9/2004 Albaath University, Syria
- Contribute in the "Environment and safety in construction projects Workshop" by presenting "Construction Wastes Management and Materials Recycling”, Jourdan Engineers Association , 12-10-2004, Amman, Jordan
- Giving training courses to some of the local institutions engineers:
  - Computer Engineering Drawing (AutoCAD) for the employees of the Ministry of Municipalities 17-27 /6/ 2007
  - Computer Engineering (AutoCAD 200 ) to Ministry of public Works and housing engineers 12 - 23/10/2008
  - Engineering Drawing Using AutoCAD (14 & 2000) Organized by the Hashemite University ( 30hrs course) to the Jordan Petroleum Refinery
  - Engineers.

### **Others:**

- Reviewer for the Indian Journal of Engineering & Materials Sciences
- Reviewer for the journal of building engineering (2017-)
- Reviewer for the 3<sup>rd</sup> International Conference on Residuals Science and Environment (ICRSE 2016)
- Reviewer for the Construction & Building Materials (2016-)
- Reviewer for the The 3rd Global Conference on Materials Science and Engineering (CMSE 2014)
- Reviewer for the Journal, "Structural Engineering and Mechanics, An International Journal". ISSN: 1225-4568(Print), ISSN: 1598-6217(Online) [2014]
- Reviewer for the Jordan Journal of Civil engineering(JJCE)- 2013
- Reviewer for the Journal of Cleaner Production (2012- up to now)
- Nominated by the Hashemite University for the Award of Prince Hassan bin Talal Center for Scientific Excellence 2011-2012.
- Reviewer for the Journal: Waste Management, Elsevier ( 2008 – 2009) as in waste management 30 (2010) 346-354

### **Publications:**

1. Marie, I. and Mujalli, R., 2019. Effect of design properties of parent concrete on the morphological properties of recycled concrete aggregates. Engineering Science and Technology, an International Journal, 22(1), pp.334-345
2. Iqbal Marie., 2018. Optimal Allowable Residual Mortar Content in Recycled Aggregates Crushed from Parent Concrete Implementing Different Waste Materials. Earth and Atmospheric Sciences. Vol. 1, No. 1, pp. 31-38.
3. M. Mahdi and I. Marie, “, 2018 Numerical Simulation of Concrete Mix Structure and Detection of its Elastic Stiffness.” Journal of computational engineering and physical modeling"., vol. 1, issue 1, pp. 12–22.
4. Iqbal Marie, IMPLEMENTING SOCIAL MEDIA AS A LEARNING ENVIRONMENT TO FACILITATE LEARNING ANYTIME/ANYWHERE FOR ENGINEERING COURSES, International Journal of Advanced Research and Review (JARR), 2(3), 2017; pp. 31-39
5. Iqbal Marie, 2017. Engineering Geology: an Introductory Laboratory Manual, Noor publishing company
6. Marie, I., 2017. Thermal conductivity of hybrid recycled aggregate–Rubberized concrete. Construction and Building Materials, 133, pp.516-524.
7. Marie, I., 2016. Diagnostic Approach for Quantifying the Soiling Level and the Aging of Limestone Façade. Journal of Building Engineering. Volume 7, ( september 2016), pp. 292–299.
8. Marie I. "Zones of weakness of rubberized concrete behavior using the UPV". Journal of Cleaner Production. 116 (2016) 217-222.

9. I. Marie, "Perception of Darkening of Stone Façades and the Need for Cleaning", *International Journal of Sustainable Built Environment* 2 (2013), pp. 65-72  
DOI information: <http://dx.doi.org/10.1016/j.ijjsbe.2013.09.001>
10. Hisham Qasrawi and Iqbal Marie, "Towards Better Understanding of Concrete Containing Recycled Concrete Aggregate", *Advances in Materials Science and Engineering*, Volume 2013 (2013), Article ID 636034, 8 pages doi: <http://dx.doi.org/10.1155/2013/636034>
11. Marie, I., Qiasrawi, H., "Closed-loop recycling of recycled concrete aggregates", *Journal of Cleaner Production*, 37 (2012) 243-248
12. H. Qasrawi, I Marie and Hassan Tantawi, " Use of recycled Concrete Rubble as Coarse Aggregates in Concrete", 5th jordanian international civil engineering conference 17th -19th January 2012 , Land mark hotel, Amman . P 281-287
13. Iqbal Marie, "Stress Diagrams as a Structural Documentation of an Architectural Heritage" as a chapter from the **Archeology Research Trends book**, Editors: Alex R. Suárez and Marc N. Vásquez, ISBN: 978-1-60456-678-9. Pub. Date: 2009, NOVA publishers
14. Batayneh, M., Marie, I., and Asi, I.M , " Promoting the use of crumb rubber concrete in developing countries", *Waste Management*, 28(2008), 2171 – 2176.
15. I Marie and S S Issa , "Prediction of the Transition Rise of a Circular Plate.", *Proceedings of the 3rd International Conference on: Application of Traditional and High Performance Materials in Harsh Environment*, Jan. 23-24 (2008) , 247-250, American University of Sharja, UAE.
16. M. Mahdi, and I. Marie, "A Numerical Prediction of the Influence of Concrete Mix Structure on its Elastic Stiffness: Part I" , ICCE-15 (The Fifteenth International Conference on Composites/ Nano Emgineering), Haikou, Hainan Island, China, July 15-21, 2007.
17. I. Marie, " Structural Documentation of an Architectural Heritage" fifth International Conference on Science ands Technology in Archaeology and Conservation, July 6-7-2007 in Baeza Spain,
18. Batayneh, M., Marie, I., and Asi, I.M., "Use of Selected Waste Materials in Concrete Mixes", *Journal of Waste Management*, Elsevier, 27(2007) 1870-1876
19. I. Marie and H. Qasrawi, " Investigation of Depth and Inclination of Surface Cracks in Concrete Slabs using Ultrasonic Technique" .", 2nd International conference on Applications of Traditional and High Performance Materials in Harsh Environments, March 20-22 , 2006, American University of Sharja, UAE.
20. I. Marie, " Visual Effect of Contaminated Stone Facades in Amman", 4th international Conference on Science and Technology in Archaeology and Conservation, 7th to 11th December, 2005.

21. I.Marie and H. Qasrawi “Virtual Assembly of Pottery Fragments Using Moiré Surface Profile Measurements “ Journal of Archaeological Science, Elsevier. 32 (2005) 1527-1533.
22. I Marie and S S Issa , “Residual Stress Distribution Produced by Inconvenient Storage Conditions.”, Proceedings of the Fifth International Conference on: Composite Science and Technology, Feb. 1-3 , 2005, American University of Sharja, UAE.
23. I. Marie and H. Qasrawi, “ Virtual Assembly of Historical Pottery Fragments Using Moir’ Surface Profile Measurements” Third international Conference on Science and Technology in Archaeology and Conservation, 7th to 11th December, 2004, Zrqa- Dead Sea
24. Marie I. “Virtual Modeling in Manufacturing” Vocational Training, Vocational Training Corporation, 16, 2004, pp 12-14
25. H.A.Hadid, S., Al-Sadder, I.A.Marie and M Bakir,” The Role of Interface Element for Strip Plate on Elastic Media” presented in the International Conference on Geotechnical Engineering, October 3-6, 2004, University of Sharjah, UAE
26. H. Qasrawi and I Marie, “ Investigation of Cracks in Concrete Pavements by Nondestructive Techniques” presented in the Jordan International Conference on Sustainable Development of Transportation Systems, April 13-15, 2004.
27. I. Marie and S.S.Issa,” Development of Computer Aided Shadow Moire’ Technique for Surface Topography Inspection Using 3D-Max.”, presented in First International conference on: Applications of Traditional and High Performance Materials in Harsh Environments, January 20-22 , 2004, UAE.
28. I. Marie, M.Batayneh, and I. Asi, “ Recycling Scrap Tires as a Substitute Material in Concrete Mixes”. presented in First International conference on: Applications of Traditional and High Performance Materials in Harsh Environments, January 20-22 , 2004, UAE.
29. Qasrawi, H., Asi, I. and Marie, I. 2003. Steel Slag Aggregate for Road Construction, A paper presented at Industrial and Structural Wastes workshop, Amman, Jordan.
30. Hisham Qasrawi and Iqbal Marie, “The Use of USPV to Anticipate Failure in Concrete under Compression”, Cement and Concrete Research, 33, 12, 2003, pp 2017-2021.
31. I. Marie, M.. Batayneh, and I. Asi, “ Scrap tires recycling in Concrete Mixes”, Presented in Industrial and Constructional Wastes Workshop, 16-12-2003, Amman, Jordan
32. H.A.Hadid and I.A.Marie, “ Appraisal and Treatment of Damaged Buildings as Result of Explosions and Air Raid Attacks”, Precedings of the civil engineering scientific day, Al Balkaa University, Jordan, 26/5/2003.

33. H. Qasrawi and I Marie "Monitoring Concrete Failure by USPV Tester". Proceedings of 1st Middle East Nondestructive testing Conference and exhibition, Bahrain, September 24-26, 2001.
34. S.S. Issa and I.A. Marie, "Some material and light source parameters in inverse integrated photoelasticity", Proceeding of the 9th International Conference on Experimental Mechanics, Lyngby, Copenhagen, Denmark, August 20-24, 1990.
35. S. Issa and I.A. Marie, "Applicability of some cited methods in integrated photoelasticity", Proceedings of the 1990 SEM Spring Conference on Experimental Mechanics, Albuquerque, New Mexico, U.S.A., June 3-6, 1990.
36. S.S. Issa and I.A. Marie, "Material noise in integrated photoelasticity", Proceedings of the 1990 SEM Spring Conference on Experimental Mechanics, Albuquerque, New Mexico, U.S.A., June 3-6, 1990
37. S.S. Issa and I.A. Marie, "Parameters affecting quantitative inverse of integrated photoelasticity", EUROMECH 256, Tallin, Estonia (USSR), September 25-28, 1989.
38. S.S. Issa and I.A. Marie, "Role of stress components on reverse integrated photoelasticity", Proceedings of the 12th GESA-Symposium - Experimental Mechanics in Research and Practice, Veitshoechheim, Germany, May 11-12, 1989.
39. S.S. Issa and I.A. Marie, "Characteristic angle, light intensity and their correlation to wavelength in three-dimensional photoelastic media", STRAIN, Journal of the British Society for Strain Measurement, 22(2), 1986, pp. 63-68.
40. S.S Issa and I.A. Marie, "Characteristic angle, light intensity and their correlation to the wavelength in three-dimensional photoelastic medium", presented at the 5th Donau-Adria Symposium, Zagreb, Yugoslavia, June 15-17, 1984.