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CURRICULUM VITAE

Dr. Hashem R. Al-Masaeid
Professor of Civil Engineering
Former Minister of Transport, Jordan
Former Vic President of Al al-Bayet University
Former Director General of Public Transport Regulatory Commission

1. Address

Civil Engineering Department, Faculty of Engineering,

Jordan University of Science and Technology.

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2. Personal Data

Date of Birth : October 1, 1957

Place of Birth : Al-Ageb, Mafraq, Jordan

Place of Residence : Al-Ageb, Mafraq

Nationality : Jordanian Marital Status : Married No. of Children : Five

3. Education

Institution	Location	Degree	Year of Graduation	Language of Instruction
Univ. of Jordan	Amman Jordan	B.Sc. Civil Eng.	1982	English
Yarmouk Univ.	Irbid Jordan	M.Sc. Civil Eng.	1985	English
Purdue Univ.	West Lafayette U.S.A.	Ph.D Civil Eng.	1990	English

4. Title of Theses

- Master Thesis: "Strength Properties of Three-Size Bituminous Concrete Mixtures", Yarmouk University, Irbid, Jordan, 1985.
- Doctoral Thesis: "Bayesian Approach to the Estimation of Expected Number of Accidents", Purdue University, Indiana, USA, 1990.

5. Professional Experience

- 1. May 1993 to Sept. 1996: Ministry of Public Works and Housing Consultant for road affairs, Amman, Jordan.
- 2. Sept. 1987 to June 1988: designer of the student's dormitory project, new roads, and parking facilities inside the University of Science and Technology Campus.
- 3. Sept. 1990 to 2000: Undertaken consulting various projects inside and near side the University, including roads, interchanges, parking garages, and traffic control.
- 4. 2001 to 2003: Participation in the Traffic Study for Greater Irbid Municipality, the study included: traffic volumes and flow, parking, traffic safety and auditing, traffic signal design, pavement maintenance, and public transport lines.
- 5. April 2006 to April 2008: Managed, supervised and participated in the development and implementation of different Public Transport policies and strategies at Jordan national level. Also, supervised planning, studies, structuring of public transport networks and service lines, tendering, negotiation, service quality evaluation, and implementation of different Public Transport Services.
- 6. April 2006 to April 2008: Head of the Technical Committee for Amman-Zarqa Light Rail Project. Major activities included management, supervision, follow-up and implementation of studies, socio-economic and environmental assessment, request for proposals (RFP), tendering, conferencing, technical and financial qualifications, evaluation of proposals, negotiation, agreement development and closing of Private-Public partnership Project (Build-Own-and-Transfer project).
- 7. Sep. 2008 to 2010: Head of the Master plan infrastructure development committee, Al al-Bayt University, Mafraq-Jordan.
- 8. Sep. 2015 to present: Member of professional qualification and road engineering accreditation committee, Jordan civil engineers Association, Amman – Jordan,

6. Administrative and Academic Experience

- Minister of Transport, Hashemite Kingdom of Jordan, (May 2012- Oct. 2012).
- Acting president of Al al-Bayt university, Mafraq, Jordan (Apr. 2012- May 2012).
- Vice president of Al al-Bayt University, Mafraq, Jordan, (Sep. 2008 May 2012).
- Director General of Public Transport Regulatory Commission, Hashemite Kingdom of Jordan, Amman, (April 2006- April 2008).
- Member of the Steering Committee and Head of the Technical Committee of Amman-Zarqa Light Rail System Project, Jordan, (2006-2008).
- Member of the Greater Amman Municipality Council, Amman, (2007-2008).
- Member of Board of Trustees of Al al-Bayt University, (2010-2012).
- Member of Board of Trustees of Jadara University, (2013-present).
- Member of the Scientific Research Support Fund Council, Ministry of Higher Education and Scientific Research, Amman, (2009-2012).
- Member of Board of Directors of Yarmouk Water Company, Ministry of Water and Irrigation (2010-2012).
- Vice Dean of Scientific Research, Jordan University of Science and Technology, Irbid, Jordan, (Sep. 1998- Sep. 2000).
- Acting Dean of Scientific Research, Jordan University of Science and Technology, Irbid, Jordan, (several times 1998-2000).
- Visiting Professor in Civil Engineering Department, Faculty of Engineering, The Hashemite University, Zarqa, Jordan (Sep. 2000-Sep. 2001).
- Director of the Centre for Studies, Consultations, and Community Service, the Hashemite University, Zarqa, Jordan (Sep. 2000-Sep. 2001).
- Vice Dean of Engineering Faculty, Jordan University of Science and Technology, Irbid, Jordan, (Sep. 2001-Sep. 2003).
- Acting Dean of Engineering Faculty, Jordan University of Science and

Technology, Irbid, Jordan, (Several times 2001-2003).

- Professor in Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan, (1999-Present).
- Associate Professor in Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan, (1995-1999).
- Assistant Professor in Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan, (Sept. 1990-1995).
- Lecturer in Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan, (Sept. 1986-Aug. 1988).
- Teaching Assistant in Civil Engineering Department, University of Jordan, Amman, Jordan, (May 1982-Sept. 1986).

7. Honours and Awards

- 1. Scientific Appreciation Award, Faculty of Engineering and Technology, Jordan University, 1981, (Salah Cons. Comp. Award).
- 2. Scientific Achievement Award from Yarmouk University, Irbid, Jordan, 1985.
- 3. Scholarship from Jordan University of Science and Technology to Purdue University, West Lafayette, U.S.A. to pursue higher education leading to the degree of Ph.D. in Civil Engineering (1988 to 1990).
- 4. Jordan Association of Engineers Award, for the contribution made as the head of Scientific Committee and a member of the Organisation Committee of "The First Jordanian Conference on Traffic and Environment", Amman, Jordan, May, 13-15, 1997.
- 5. Awarding of Abdul Hameed Shoman Foundation Prize for Arab Researchers, in the Engineering Sciences, on a competitive basis to promote interest in research among Arab scientists, 1997.
- 6. Exceptional Promotion to Full Professor in Civil Engineering, Jordan University of Science and Technology, Irbid Jordan, 1999.
- 7. Public Security Headquarters Award, for Contribution made in Participation in different training courses in traffic safety and conferences organized by Jordan

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Traffic Institute, Nov. 2000.

- 8. Hashemite University Award, for contribution and achievement made during the administration of the Center for Studies, Consultation and Community Service, Hashemite University, Zarqa, 2001.
- 9. Ministry of Transport appreciation award, Amman-Jordan, June 2008.

8. Teaching Experience

- **a.** The following Undergraduate level courses have been taught:
 - Statics
 - Surveying
 - Route Surveying
 - Highway Geometric Design
 - Transport
 - Pavement Design
 - Transportation Engineering
 - Urban Transportation
 - Traffic and Highway Engineering
 - Advanced Transportation Engineering
 - Highway Laboratory
 - Surveying Laboratory
 - Graduate Transportation Engineering Project (supervised the graduation projects of more than 60 civil engineering students).
- **b.** The following Graduate level courses have been taught:
 - Traffic Flow Theory and Control
 - Highway Safety
 - Analytical Techniques in Transportation

9. Research Activities

- Traffic Safety Evaluation Methods and Accident Analysis
- Capacity Analysis of Highway Facilities
- Highway Geometric Design
- Evaluation of Pavement Condition and Performance
- Technology of Bituminous Mixtures.

10. Graduate Studies

- **A.** Member board of examiners for master degree in civil engineering at Jordan University of Science and Technology.
- **B.** Supervised the following graduate students for their award of master degree in civil engineering.
- 1. Khaled Abu-Abed, "Effect of Using Different Pavement Surface Materials on Pavement Condition and Skid Resistance", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, April, 1993.
- 2. Kamal R. Halawa, "Impact of Residential Communities along Main Rural Roads on Traffic Safety", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug., 1993.
- 3. Adnan Ghannam, "Geometric Design Consistency of Horizontal Alignment for Different Vehicle Classes", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, March 1994.
- 4. Mahdi A. Abul-Huda, "The Effect of Rubber-Sulfur Additives on Asphalt Concrete Mixtures", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec. 1994.
- 5. Jihad S. Al-Sharaf, "Effect of Road Roughness and Pavement Condition on Traffic Speed", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July 1995.
- 6. Eid Owyyed Al-Adamat, "Effect of Rubber on Dynamic Modulus and Static Creep of Asphaltic Concrete Mixtures", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Jan. 1996.
- 7. Mohammad Z. Faddah, "Capacity of Roundabout Entries", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 1996.
- 8. Moh'd Khair T. Al-Shra'ah, "Effect of Police Enforcement on Drivers Behaviour", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Feb. 1997.
- 9. Mohammad Ahmad Obaidat "Influence of Olive-Husk on Dynamic Modulus and Static Creep of Asphaltic Concrete Mixtures", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 1997.

- Ahmad A. Al-Harahsheh, "Estimation of Vehicle Parking Demand for Different Land Uses in Jordan", M. Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec. 1997.
- 11. Adel A. Al-Mashaqbeh, "Traffic Accident Costs in Jordan", M. Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec. 1997.
- 12. Khalid M. Al-Akhras, "Speed-Flow Relationship for Multi-Lane Divided Highways in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Feb. 1998.
- 13. Olfat I. Al-Haji," Development of a Knowledge-Based System for Pedestrian Road Crossing Behaviour Through Video Cameras", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, April, 1998. (Co-supervisor).
- 14. Khaled Kh. Al-Hammouri, "Roadway Consistency under Adverse Weather Conditions", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 1998.
- 15. Yahia S. Al-Showabka, "Traffic Delay at Roundabouts in Jordan", ,M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 2001.
- 16. Ghassan M. Suleiman, "Traffic Accidents in Damascus and Their Relationship to City Planning Variables", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, 2003.
- 17. Fatin I. Abu Al-Bandourah, "Traffic Accidents at Roundabouts in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 2006.
- Ekhlass K. Al-Zubai," Estimation of Rescue Time for Road Accident Casualties in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 2006. Irbid-Jordan, Aug. 2007.
- 19. Anas Ahmed Nemer Mohammed," Travel Time and Consistency Performance Measures Utilizing GIS and GPS", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Jan. 2007.
- 20. Najah Al-Omoush," Traffic volume Forecasting on Rural Highways in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug.2006. Irbid-Jordan, 2007.

- 21. Muna Abdulrahim Talal Mohmoud," The Relationship between Urban Characteristics and traffic accidents in Amman-Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, April 2015.
- 22. Amir Abed Al-Salam Shtayat," Evaluation of Public Transit Performance in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July 2015...
- Ma'en Qaseem M. Ghadi," Study of the Economic Costs of Road Accidents in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 2015. Irbid-Jordan, 2015.
- 24. Ahmad S. Hajjoj, 'Speed consistency of interchange loops with different vehicle classes on rural highways' M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July 2015.
- 25. Oruba M. Al Shehab, "Trip generation for shopping centers in urban areas in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 2015.
- 26. Rana A. Al Shafei," Estimating Parking Needs for Hospitals in Amman", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July 2016.
- 27. Sanaa S. Fayyad, "Estimation of trip generation rates for residential areas in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug. 2016.
- Salam A. Al-Ajlouni," Vehicle Parking Availability in Central Business District of Irbid City- Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec. 2016.
- 29. Ibtisam H. Al-Hasan," Estimation of Transport Buses Operating Cost", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, April 2017.
- 30. Eman Adnan Shehadeh,"Parking requirements for Medical Clinic Centres in Amman", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July 2017.
- C. Member board of examiners for Ph.D. degree in civil engineering at Jordan University of Science and Technology.
- **D**. Supervised the following graduate students for their award of Ph.D. degree in civil engineering:

- 1. Hussein Ali Ewadh, "Development of Road Safety Auditing Program for Iraq Rural Roads", Ph.D. Dissertation, Mustanseria University, Iraq, Jan., 2002.
- **E**. Membership on examining committees for the following graduate students for their award of master degree in Civil Engineering.
- 1. Yahya Al-Smadi, "Evaluation of Pavement Surface Condition and Maintenance Expenditures in Amman City, M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, March, 1991.
- 2. Mohammed Kheder, "Development of Maintenance Strategies for the Rural Road Network in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, 1991.
- 3. Hassan Akour, "Road Traffic Noise Levels in Irbid District", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, March, 1991.
- 4. Jehad T. Talafeha, "Road Geometric Design Consistency Based on Speed Changes on Horizontal Curves", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, June, 1991.
- 5. Bashar H. Al-Omari, "Using Optimization Models in Residential Land Planning and Dwelling-Lay out System Design", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, June, 1991.
- 6. Nasir G. Gharaibeh, "Towards a Highway User Change System in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July, 1991.
- 7. Adnan M. Shiyab, "Evaluation of Military Air Field Pavements in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec., 1992.
- 8. Zahi M. Bani-Said, "Short Term Forecasting of Traffic Volume in Amman's Urban Arterials", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec., 1992.
- Malak M. Shatnawi, "Forecasting Public Transit Ridership in the Greater Amman Area",
 M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, April,
 1993.
- Jehad Q. Al-Azzam, "Evaluation of Pavement Distresses of Rural Roads in Jordan",
 M.Sc. Disser, Jordan University of Science and Technology, Irbid-Jordan, Sept., 1993.

- 11. Majed G. Al-Zumot, "Prediction of Traffic Accidents in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Nov., 1993.
- 12. Munther Y. Al-Kofahi, "Evaluation of Pavement Deterioration of the Street Network in Irbid City", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, 1993.
- 13. Reem R. Batayneh, "Stochastic Model for the estimation of Driver Gap-Acceptance Parameters at Unsignalized Intersections", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, June, 1994.
- 14. Ahmad S. Al-Atieh, "Development of an Instrument for Recording and Evaluating Pavement Roughness-JUST Profilometer", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, June, 1994.
- 15. Ibrahim H. Khries, "Predicting Urban Arterial Origin Destination Matrices", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug., 1994.
- 16. Ghassan T. Abdul-Jabber, "Field Inspection and Laboratory Testing of Highway Pavement Rutting in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Aug., 1995.
- 17. Asem Sabri Jaradat, "Analysis of Mini-Bus Traffic Accidents in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Jan., 1996.
- 18. Malek S. Al-Zou'bi, "Behaviour of Bituminous Concrete Mixtures with Burned Olive Waste Ash Reinforcement", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July, 1996.
- 19. Saeed Abdul Aali Jaber, "Estimating Vehicle Time Headways for Rural Two-Lane Highways in Jordan", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July, 1997.
- 20. Hatem Olaywah, "Investigating the Characteristics of Captive Riders in Greater Amman Area", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Dec. 1997.
- 21. Fares Y. Al-Deep, "Laboratory and Field Investigation on Characteristics of Asphalt-Rubber Concrete Mixing", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Jan. 1998.
- 22. Zaid D. Al-Momani, "Evaluation of Pedestrian Related Traffic Control Measures in

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 - Greater Amman", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, July, 1998.
- 23. Arabi N. Al-Qadi, "Effect of Oil Shale Ash on Fatigue Behavior and Rutting of Flexible Pavement", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Jan. 2002.
- 24. Jamil M. Al-Mashaqbeh," Evaluation of the Effect of Rubber on Fatigue Characterization and Pavement Deformation of Asphaltic Concrete Mixtures", M.Sc. Dissertation, Jordan University of Science and Technology, Irbid-Jordan, Jan., 2002.

11. Completed Funded Research Projects

- Research Grant No. 16/92 supported by the Deanship of Scientific Research, Jordan University of Science and Technology, Irbid-Jordan, 1992. Title: "Safety Impact of New Development along Main Rural Roads".
- Research Grant No. 21/92 supported by the Deanship of Scientific Research at Jordan University of Science and Technology, Irbid-Jordan, 1992. Title: "Effect of Using Different Surface Materials on Overlay Design and Skid Resistance".
- Research Grant No. 37/94 supported by the Higher Council for Science and Technology, Amman-Jordan, 1994.
 Title: "Road Network in the Northern Part of Jordan Badia and its Future Needs".
- Research Grant No. 35/97 supported by the Deanship of Scientific Research at Jordan University of Science and Technology, Irbid-Jordan, 1997. Title: "Capacity of Roundabouts in Jordan".
- Research Grant No. 20000147 supported by the Deanship of Scientific Research at Jordan University of Science and Technology, Irbid-Jordan, 2000.

 Research Grant No. 16/2004 supported by the Deanship of Scientific Research at Jordan University of Science and Technology, Irbid-Jordan, 2004.

 Title: "Consistency of Continuous Horizontal Curves under Adverse Weather Conditions".
- Research Grant No. 16/2004 supported by the Deanship of Scientific Research at Jordan University of Science and Technology, Irbid-Jordan, 2004.

 Title: "Traffic Accidents in Damascus and Their Relationship to City Planning Variables".

Research Grant No. 191/2004 supported by the Deanship of Scientific Research at Jordan University of Science and Technology, Irbid-Jordan, 2004. Title: "Estimation of Rescue Time for Road Accidents Casualties in Jordan".

12. Committees

Participated in the following committees:

A. National Level

- The prevention of road accident Scientific Committee, Jordan Society for the Prevention of Road Accidents, Jordan, 1987.
- Road Accidents Investigation and Reconstruction Manual Committee, Technical Office for Traffic Studies, Public Security Directorate, Jordan, 1993.
- Data Bank and Road Master Plan Committee, Ministry of Public Works and Housing, Jordan, (1994-1996).
- Member of the Organisation Committee for the First Jordanian Conference on Traffic and Environment, which held at the Jordan Association of Engineers, Amman, Jordan, May 1997.
- Head of the Scientific Committee for the First Jordanian Conference on Traffic and Environment, which held at the Jordan Association of Engineers, May 13-15, 1997.
- Member of the Organisation Committee for the Symposium on Traffic Calming and its Influence on Traffic Safety, Jordan Traffic Institute, Public Security Headquarters, Amman-Jordan, Dec. 1997.
- Member of the Organisation Committee for the Symposium on Pedestrian Accidents, Jordan Traffic Institute, Public Security Headquarters, Amman-Jordan, 1998.
- Member of the Administration Council for Jordan Badia Research and Development Programme, the Higher Council for Science and Technology, Amman, Jordan, 1999.
- Member of the organisation committee for the Conference on Public Transport in Jordan, Jordan Traffic Institute, Oct. 1999.

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- Member of the "Euro -Jordanian Action for the Development of Enterprise" team conducted a study tour to Netherlands and Germany, 5-18 Aug.2001.
- Member of the steering committee for The 6th International Conference on Concrete Technology for Developing Countries, Amman, Jordan, 21-23 October, 2002.
- Member of the Reviewer Technical Committee for the Award of Consultative Engineering Works in 2001, Ministry of Public Work and Housing, Jordan.
- Member of Higher Scientific Research Committee, Ministry of Higher Education and Scientific Research, Jordan, 2005-Now.
- Chairman of Committee on "Identification of Scientific Research Priorities in Jordan for 2010-2020 in the Field of Engineering Science", Higher Council for Science and Technology, Amman, Jordan, Aug. 2009.

B. University Level

- Member of Faculty and Staff Housing Administration Council (JUST).
- Member of the University Employers Club Administration Council (JUST)
- Member of the University Scientific Research Council (JUST).
- Member of the University Graduate Studies Council (JUST).
- Member of the Dean's Council (Al al-Bayt Univ.).
- Member of Appointment and Promotion Committee (Al al-Bayt Univ.).
- Member of the Investment Committee (Al al-Bayt Univ.).
- Chairman of the University Master Plan Committee (Al al-Bayt Univ.).
- Chairman of the Student Academic Affairs Committee (Al al-Bayt Univ.).

C. Faculty of Engineering Level

- The Curriculum Committee, Chairman
- The Engineering Training Committee, Chairman
- Member of Engineering Faculty Council
- Member of the Scientific Research Committee, Chairman
- Member of Academic Promotion Committee
- Faculty Student Training Committee, Chairman
 - Faculty Research Committee, Chairman.

D. Department Level

- Scientific Research Committee, Chairman
- The Curriculum Committee, Chairman
- The Advisory Committee

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- Graduate Studies Committee, Chairman
- Laboratory Committee
- Graduation Committee, Chairman
- Social Committee
- Symposium Committee
- Member of Academic Promotion Committee

13 Community Service

- Representing University in the discussion of the Manual on Uniform Traffic Control Devices and Traffic Safety at the Ministry of Public Works and Housing, Jordan, 1993.
- Given a number of lectures on traffic safety for engineers in a training course held at the Ministry of Public Works and Housing in a Co-operation between the Swedish National Road Administration and Ministry of Public Works and Housing, April, 1993.
- Consulted by the Ministry of Public Works and Housing of Jordan on some Road Maintenance and Evaluation Projects (1993 1996).
- Representing University in the discussion of the Evaluation of Public Transport Service in Amman. The Higher Council for Science and Technology, 5 Dec., 1996.
- Given a lecture on "Accident Prevention via Engineering Aspects" in a training course held at the Jordan Association Engineers, 10-13 May, 1997.
- Given a lecture on "Evaluation of Road Safety Improvements" in The Scientific Day of The Traffic Institute, Public Security Headquarter, Amman, Jordan, 12 May, 1997.
- Given a lecture on "Effect of Town Planning and Land-Use on Road Accidents", in a Workshop held at Al-Albet University in a Co-operation with the Jordan Society for the Prevention of Road Accidents, 18 May, 1997.
- Representing University in the discussion of the Traffic Enforcement in Jordan. In a Workshop held at Traffic Directorate, Public Security Headquarters, Amman, Jordan, 28 Feb., 1998.
- Representing University in "Poverty and Unemployment Conference", Ministry of Administrative Development, Amman, Jordan, Sep. 20-22, 1998.

- Given a number of lectures on "Accidents Preventive Measures" and "Traffic Safety in Residential Areas", in a Training Course for Police Officers, Jordan Traffic Institute, Public Security Headquarters, Amman, Jordan, 17 Nov. 2 Dec., 1998.
- Representing the University in the discussion of a specialised workshop on "Social-economic effects of Development and Employment fund poverty programmes in Jordan". The Higher Council for Science and Technology in co-operation with UNDP, ASCWA, and Ministry of Social Development, Amman, Jordan, 30 Jan., 1999.
- Organised and offered a Workshop on "Design and Analysis of Intersections and Roundabouts". Jordan University of Science and Technology, Irbid, Jordan, 1-3 Aug., 1999.
- Participate in offering short intensive courses in Surveying for surveyors of the Ministry of Municipals and Environment, Jordan University of Science and Technology, Irbid, Jordan, April-May, 2002.
- Scientific Supervisor of the Workshop on "Public Transport", Organised by Prince Naef University for Defence Science, Riyadh, Saudi Arabia, 24-26 May, 2008.

14. Membership in Scientific Professional Societies

- 1982 to date: Member of the Jordan Association of Engineers
- 1986 to date: Member of the Jordan Society for the Prevention of Road Accidents.
- 1996 to date: Member of the American Society of Civil Engineers, ASCE.
- 1996 to date: Member of the Indian Roads Congress, IRC, India.
- 1997 to date: Member of the Jordanian Roads Society, Amman, Jordan.
- 1997 to date: Member of the Institute of Transportation Engineers, ITE, USA.
- 2002 to date: Founder Member and member of the Arab Administrators Society, Arab Administrative Development Organization, Arab Countries League.

15. Professional and Scientific Meetings

- 1. Symposium on Design and Management of Bituminous Pavements", Specialist International Course Sponsored by Yarmouk University, May 1985.
- 2. Symposium on "Towards Better Roads", Jordan Roads Society, Amman, April 1986.
- 3. The Transportation Research Board 72th Meeting, National Research Council, Washington D. C., USA, Jan. 1993, Presented a Paper Entitled "Pedestrian Speed-Flow Relationship for CBD Areas in Developing Countries".
- 4. The Transportation Research Board 72th Meeting, National Research Council, Washington D. C., USA, Jan. 1993, Presented a Paper Entitled "Evaluation of Safety Impact of Highway Projects".
 - 5. The Transportation Research Board 74th Meeting, National Research Council, Washington D. C., USA, Jan. 1995, Presented a Paper Entitled "Performance of Safety Evaluation Methods".
 - 6. The Transportation Research Board 74th Meeting, National Research Council, Washington D. C., USA, Jan. 1995, Presented a Paper Entitled "Capacity of One-Way Yield-Controlled Intersections".
 - 7. Seminar on Policies for Traffic Safety in Jordan. Organised by Public Security Directorate and Goetho-Institute, Amman, Jordan, 28-29 May 1995. Presented a paper entitled "Possible Measures to Reduce Safety Problems in Jordan.
 - 8. The Jordanian Association of Engineers, Amman-Jordan, the First Jordanian Conference on Traffic and Environment, 13-15 May, 1997. Presented a Paper Entitled "Impact of Police Enforcement on Speeding in Jordan".
 - 9. The 7th International Conference on "Traffic Safety on Two Continents, "Organised by VTI, LENC, TRB, and FERSI. Lisbon, Portugal, 22-24 Sep., 1997, Presented a paper entitled "Effect of Police Enforcement on Drivers` Behaviour".
 - 10. Symposium on Traffic Calming and its Influence on Traffic Safety, Jordan Traffic Institute, Public Security Headquarters, 15-16 Dec. 1997, Presented a Paper entitled "Traffic Calming: Experience, Measures, and Effectiveness".

- 11. Workshop on Point/demerit System for Drivers Violations, Jordan Traffic Institute, Public Security Headquarters, Amman-Jordan, Sep. 2, 1998.
- 12. Symposium on "Role of Scientific Research in Low-Volume Roads Projects", organised by Ministry of Public Works and Housing and Ministry of Transport in cooperation with The Higher Council for Science and Technology and Arab Union Councils of Scientific Research, Amman, Jordan, Oct. 24-26, 1998. Presented a paper entitled "Geometric Characteristics of Low-traffic Volume Roads in Jordan".
- 13. Symposium on "Towards Safer Traffic" organised by The Jordan Society for the Prevention of Road Accidents, Amman, Jordan, 30 Nov., 1998. Presented a paper entitled "Traffic Safety Auditing".
- **14.** Symposium on "Pedestrian Accidents", organised by Jordan Traffic Institute, Public Security Headquarters, Amman, Jordan, Dec. 8-9, 1998.
- 15. The 10th International Conference on "Safety on Two Continents" organised by VTI (Sweden), TRB (USA), and BAST (Germany). Malmo, Sweden, Sep. 20-22, 1999. Presented paper entitled "Characteristics and Cost of Pedestrian Accidents in Jordan".
- 16. Consultations and Training Conference, Organised by Arab Administrative Development Organisation, Arab Countries League, Cairo- Egypt, held in Manama Bahrain, May 28-29, 2001.
- 17. The 8th Meeting for Exchange of Training Students in the Arab Universities, Arab Council for Training Students of Arab Universities (ACTSAU), United Arab Emirates, Sharjah University, Feb. 18-19, 2002. Presented a lecture on "Jordanian Universities".
- **18.** Traffic Safety in Jordan Conference 2002, TraSiJ2002, Jordan Traffic Institute, Public Security Directorate, Amman, Jordan, 8-10 April, 2002.
- 19. The 2nd International Conference on "Safety on Roads", Organized by Bahrain University (Bahrain), VTI (Sweden), TRB (USA), bast (Germany), and TRL (UK), Bahrain, Oct 21-23, 2002.

 Presented two papers: "Consistency of Continuous Horizontal Curves under Adverse Weather Conditions", and "Development of Safety Audit Indices for Rural Roads".
- 20. The 9th Meeting for Exchange of Training Students in the Arab Universities, Arab Council for Training Students of Arab Universities (ACTSAU), Sudan Arab Republic, Sudan University for Science and Technology, Feb. 21-24, 2003.
- 21. Symposium on "Site Planning for Accident Reduction", Al-Balqa Applied University, Salt, Jordan, April, 28, 2003.

- 22. Jordan International Conference on Sustainable Development of Transportation Systems, organized by Jordan Engineers Association, April 13-15, 2004, Amman, Jordan. Presented two papers: "Parking Characteristics In Amman Area", and "Traffic Accidents in Damascus and Their Relationship to City Planning Variables".
- 23. Rail Conference, organised by Rail Infrastructure MENA 2007, Dubai, UAE, 4-5 June, 2007. Presented paper" Jordan Case-Study: Amman-Zarqa Light Rail Project", (http://www.terrapinn.com).
- **24.** workshop on "Public Transport", Organised by Prince Naef University for Defence Sciences, Riyadh, Saudi Arabia, 24-26 May, 2008.
- 25. Higher Council for Science and Technology meeting with an American Delegation presented a paper on Traffic Accidents in Jordan, 2008.
- **26.** Irbid international Conference, Jordan University of Science and Technology, 14-16, Nov., 2014, presenting a key note speech on 'Transport and Traffic Planning'.
- **27.** Irbid international Conference, JUST, 14-16, Nov., 2017, presenting a key note speech on 'Towards trip generation manual for Jordan'.

16. Other Activities

- Participation in a Workshop of "Education Technology", Jordan University of Science and Technology, Irbid, Jordan, 1991.
- Participation in a Workshop of "Evaluation and Measurements for Education Technology", Jordan University of Science and Technology, Irbid, Jordan, 1996.
- Participation in the development of Transportation Curriculum at the graduate and undergraduate levels.
- Participation in the development of Highway Laboratory
- Participate in the development of Infrastructure Engineering Management program at graduate level.
- Participate in the development and establishment of Engineering Faculty at Al al-Bayet University, Mafraq-Jordan, 2010.

17. Reviewer

- Reviewer for the Journal of Transportation Engineering, American Society of Civil Engineers, ASCE, New York, U. S. A.
- Reviewer for Mu'tah Journal of Research and Studies, Natural and Applied Science, Mu'tah University, Mu'tah-Jordan.
- Reviewer for the First Jordanian Conference on Traffic and Environment, Jordan Association of Engineers, 13-15 May, 1997.
- Reviewer for several symposiums organised by Jordan Traffic Institute, Public Security Headquarters and Jordan Society for Road Accident Prevention, Amman, Jordan, (1995 to date).
- Reviewer for a conference on "Public Transport in Jordan", Jordan Traffic Institute, Ministry of Interior, Public Security Headquarters, Amman, Jordan, 7-8 Oct., 1999.
- Reviewer for different scientific journals, Proceedings, and research studies and Councils in sharijeh University (United Arab Emirates), An-Najah University (Palastine), Al-Albet University (Jordan), Jordan University (Jordan), and Badia Research and Development Programme (Jordan), Prince Naef University for Defence studies (Sudia Arabia).
- Member of the Reviewers Technical Committee for the Award of Consultative Engineering works in 2001, Ministry of Public Works and Housing, Amman, Jordan.
- Reviewer for several academic promotion applications.
- Reviewer for the Prize of Abdul Hameed Shoman Foundation in Engineering Sciences, 2011, Abdul Hameed Shouman Foundation, Amman, Jordan.
- Reviewer for Transportation Research Part B Journal.

18. Publication

A. Journal

- 1. **Hashem R. Al-Masaeid**, Taisir S. Khedaywi, and Mohammed Smadi, "Properties of Asphalt-Oil Shale Ash Bituminous Mixtures under Normal and Freeze-Thaw Conditions", Transportation Research Record, No. 1228, TRB, National Research Council, Washington, D.C. 1989, pp. 54-62.
- 2. Turki I. Al-Suleiman and **Hashem R. Al-Masaeid**, "Descriptive Model for Fatality Rates of Traffic Accidents in Jordan", ITE Journal, Institute of Transportation Engineers, Washington D.C., Vol. 62, No. 4, April 1992, pp. 37-39.
- 3. T. I. Al-Suleiman, M. S. Kheder and **Hashem R. Al-Masaeid**, "Development of Pavement Performance Models for Rural Roads", Road and Transport Research, Australian Research Board Ltd., Australia, Vol. 1, No. 4, Dec. 1992, pp. 88-101.
- 4. **Hashem R. Al-Masaeid**, Turki I. Al-Suleiman and Donna C. Nelson, "Pedestrian Speed-Flow Relationship for CBD Areas in Developing Countries", Transportation Research Record, No. 1396, TRB, National Research Council, Washington D. C., 1993, pp. 69-74.
- 5. **Hashem R. Al-Masaeid**, Kumares C. Sinha and Thomas Kuczek, "Evaluation of Safety Impact of Highway Projects", Transportation Research Record No. 1401, TRB, National Research Council, Washington D.C., U. S. A, Jan 1993, pp. 9-16.
- 6. Taisir S. Khedaywi, Abdel Rahman Tamimi, **Hashem R. Al-Masaeid** and Khaled Khamaiseh. "Laboratory Investigation on Properties of Asphalt-Rubber Concrete Mixtures," Transportation Research Record No. 1417, TRB, National Research Council, Washington D. C., USA, 1993, pp. 93-98.
- 7. **Hashem R. Al-Masaeid**, T. I. Al-Suleiman, M. M. Hamed, and K. R. Halawa, "Impacts of Small Rural Towns on Road Safety and Traffic Operation", Journal of Road and Transport Research, Australian Road Research Board Ltd., Australia, Vol. 3, No. 1, March 1994, pp 86-98.
- 8. **Hashem R. Al-Masaeid** and Kumares C. Sinha, "Analysis of Accident Reduction Potentials of Pavement Markings", Journal of Transportation Engineering, American Society of Civil Engineers, ASCE, New York, USA, Vol. 120, No. 5, Sep./Oct. 1994, pp. 723-736.

- 9. **Hashem R. Al-Masaeid**, Mohammed M. Hamed, and Taisir S. Khedaywi, "Empirical Evaluation of Olive-Husk in Asphalt Cement Binder and Bituminous Concrete", Transportation Research Record No. 1436, TRB, Transportation Research Council, Washington, D. C., USA. 1994, pp. 124-132.
- 10. Mohammed M. Hamed, **Hashem R. Al-Masaeid**, and Zahi M. Bani Said, "Short-Term Prediction of Traffic Volume in Urban Arterials: A Case Study", Journal of Transportation Engineering, American Society of Civil Engineers, ASCE, New York, USA, Vol. 121, No. 3, May/Jun. 1995, pp. 249-254.
- 11. **Hashem R. Al-Masaeid**, M. Hamed, M. Abul-Ela, and A. Ghannam, "Consistency of Horizontal Alignment for Different Vehicle Classes", Transportation Research Record, No.1500, TRB, Transportation Research Council, Washington, USA, 1995, pp. 178-183.
- 12. **Hashem R. Al-Masaeid**, "Capacity of One-Way Yield-Controlled Intersections", Transportation Research Record No. 1484, TRB, Transportation Research Council, Washington, D. C., USA, 1995, pp. 9-15.
- 13. Mohammed M. Hamed and **Hashem R. Al-Masaeid**, "Urban Streets and Signalized Intersections Accident Prediction Models", Indian Highways Journal, Indian Roads Congress, New Delhi, India, Vol. 24, No. 5, 1996, pp. 29-35.
- 14. **Hashem R. Al-Masaeid** and Donna C. Nelson, "Pedestrian Accidents and Their Relationship to Street Geometry and Operation Variable in Jordan", Journal of the Indian Highways, Indian Roads Congress, New Delhi, India, Vol. 24, No. 9, 1996, pp. 49-57.
- 15. Turki I. Al-Suleiman, Adnan M. Shiyab, and **Hashem R. Al-Masaeid**, "Development of Deterioration Prediction Models for Airfield Pavement", Australian Road and Transport Research Journal, ARRB, Australia, Vol. 5, No. 3, Sep. 1996, pp. 82-96.
- 16. **Hashem R. Al-Masaeid**, "Fuel Tanker Accidents: Causes and Safety Measures from Drivers' Perspective", Journal of Traffic Medicine, An International Journal of Traffic Safety, IAATM, Vol. 24, No. 1-2, 1996, pp. 49-53.
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- 19. **Hashem R. Al-Masaeid**, Turki I. Al-Suleiman and Khaled Y. Abu-Abed, "Effect of Aggregate type on Pavement Skid Resistance of Rural Roads", Highway Research Bulletin, Highway Research Board, Indian Roads Congress, No.56, June 1997, pp. 71-80.
- 20. **Hashem R. Al-Masaeid** and Mohammad Z. Faddah, "Capacity of Roundabouts in Jordan", Transportation Research Record 1572, Transportation Research Council, TRB, Washington, D.C., USA, 1997, pp. 76-85.
- 21. M. Hamed, D. Hensher and **Hashem. R. Al-Masaeid**, "The Duration between Traffic Accidents in the Taxi Sector: An Empirical Study", Road and Transport Research Journal, ARRB, Australia, Vol. 6, No. 1, March 1997, pp. 64-73.
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- 23. **Hashem R. Al-Masaeid**, T. I. Al-Suleiman, and M. T. Obaidat, "Traffic Volume Forecasting Models for Rural Desert Towns", ITE Journal on the Web (http://www.ite. org/), Institute of Transportation Engineers, USA, May 1998, (Abstracted in ITE Journal, Vol. 68, No. 5, May 1998, p. 13).
- 24. **Hashem R. Al-Masaeid**, M. T. Obaidat, and F. Gharaebeh, "Pedestrian Accidents Along Urban Arterial Midblocks", Journal of Traffic Medicine, An International Journal of Traffic Safety, IAATM, Vol. 25, No. 3-4, 1997, pp. 65-70.
- 25. Mohammed T. Obaidat, Odeh Al-Jayyousi, and **Hashem R. Al-Masaeid**, "A new Methodology for Evaluating Geometric Performance of Highways", Highway Research Bulletin, Highway Research Board, Indian Roads Congress, Number 57, Dec. 1997, pp. 1-20.
- 26. **Hashem R. Al-Masaeid**, "The Influence of Block Length on Arterial Accidents and Traffic Operation", Road & Transport Research Journal, ARRB, Australia, Vol. 6, No. 3, Sep. 1997, pp. 62-71.
- 27. Mohammed T. Obaidat and **Hashem R. Al-Masaeid**, "Video System to Monitor Archeological Sites Using Ground-Based Photogrammetry", Journal of Surveying Engineering, American Society of Civil Engineers, ASCE, Vol. 124, Issue 1, Feb. 1998, pp. 3-25.
- 28. Fouad A. Gharaybeh, **Hashem R. Al-Masaeid**, and Mohammed T. Obaidat, "Parametric Sensitivity Study of the AASHTO Flexible Pavement Design Equation", Institute of Engineers Journal, The Institute of Engineers (India), Vol. 78, Feb. 1998, pp. 175-179.

- 29. **Hashem R. AL-Masaeid**, Jihad s. Al-Sharaf, and Turki I. Al-Suleiman, "Effect of Road Roughness and Pavement Condition on Traffic Speed", Journal of Road Engineering Association of Asia and Australasia, Selangor, Malaysia, No. 11, Jan. 1998, pp. 8-14.
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- 35. **Hashem R. Al-Masaeid**, "Capacity and Performance of Roundabouts", Canadian Journal of Civil Engineering, National Research Council of Canada, NRC, Canada, Vol. 26, No. 5, Oct. 1999, pp. 597-605.
- 36. **Hashem R. Al-Masaeid,** Khalid K. Hammory, and Bashar Al-Omari, "Consistency of Horizontal Alignment under Adverse Weather Conditions", Road and Transport Research Journal, ARRB, Australia, Vol. 8, No. 3, Sep. 1999, pp. 55-67.
- 37. Hamed, M., Shatnawi, M., and **Hashem R. Al-Masaeid,** "Forecasting Urban Bus Transit Daily Revenue", International Journal of Transport Economics, Vol. XXXVI, No. 3, Oct. 1999, pp. 397 –414.
- **38.** Bashar Al-Omari, and **Hashem R. Al-Masaeid**, "*Effect of* Speed Humps on Traffic Delay in Jordan", Road and Transport Research Journal ARRB, Australia, Vol. 11, No. 4, Dec.

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- 40. Bashar Al-Omari, **Hashem R. Al-Masaeid** and Y. Shawabkeh, "Development of a Delay Model for Roundabouts in Jordan", Journal of Transportation Engineering, American Society of Civil Engineers, ASCE, USA, Vol. 130, Issue 1, Jan./Feb. 2004, pp. 76-82.
- 41. **Hashem R. Al-Masaeid** and Ghassan M. Suleiman, "Relationships between Urban Planning Variables and Traffic Crashes in Damascus", Road and Transport Journal, ARRB, Australia, Vol. 13, No. 4, Dec. 2004, pp. 63-73.
- 42. Mohammed T. Obaidat, **Hashem R. Al-Masaeid**, Oift Al-Haji and A. Qudah, "A knowledge- Based System for Pedestrian's Crossing Behavior through Video Cameras", Jordan Journal of Civil Engineering, Vol. (1), No. (2), April 2007, pp. 123-141.
- 43. **Hashem R. Al-Masaeid**,"Traffic accidents in Jordan", Jordan Journal of Civil Engineering, Vol. (3), No. (4), 2009, pp. 331-343.
- 44. **Hashem R. Al-Masaeid** and Najah J. Al-Omoush, "Traffic volume forecasting for rural roads in Jordan", Jordan Journal of Civil Engineering, Vol. (8), No. (3), 2014, pp. 319-331.
- 45. **Hashem R. Al-Masaeid** and Amir A. Shtayat,"Performance of public transit in Jordan", International Journal of engineering research and applications, 6(8), pp. 7-12, 2016.
- 46. **Hashem R. Al-Masaeid**, "Safety impact of enforcement, penalty level, and fuel prices", International Journal of Constructive Research in Civil Engineering (IJCRCE), 2(2), 2016, pp. 27-31.
- 47. **Hashem R. Al-Masaeid**, Taisir S. Khedaywi, and Oruba M Al-Shehab," Trip and parking generation for shopping centers in Jordan", Paper accepted for publication, ITE Journal, Vol. 88, No. 2, 2018.
- 48. **Hashem R. Al-Masaeid,** M. T. Obaidat, and Ahmad S. Hajjoj, "Consistency and performance of interchange loops", Paper submitted for publication, 2017.
- 49. **Hashem R. Al-Masaeid** and Sanaa S. Fayyad," Trip generation for residential areas in Jordan", Paper accepted for publication, Jordan Journal of Civil Engineering, Vol. 12, No. 1, Jan. 2018, pp. 162-172.

50. **Hashem R. Al-Masaeid**, Taisir S. Khedaywi, Eman Shehadeh, and Rana Al-Shafi, Trip and parking generation of hospitals and medical clinic centers in Jordan", Paper submitted for publication, 2017.

B. Reports

- 51. **Hashem R. Al-Masaeid** and Turki Al-Suleiman., "Characteristics of Road Network in Northern Badia and Future Needs", Financed Research Project, The Higher Council for Science and Technology, Amman, Jordan, 1996.
- 52. Turki I. Al-Suleiman, **Hashem R. Al-Masaeid**, and Eswan A. As'sadi, "Effect of Using Different Surface Materials on Overlay Design", Report No.1, Project No. 21/92, Deanship of Scientific Research, Jordan University of Science and Technology, 1995.

C. Proceedings and Presentations

- 53. Taisir Khedaywi and **Hashem R. Al-Masaeid**, "Strength Properties of Three Size Bituminous Mixtures", Proceedings, The Symposium on Stones Quarries Productions, July 24-26, 1989, Jordan Engineers Association, Amman, Jordan.
- 54. **Hashem R. Al-Masaeid**, Turki I. Al-Suleiman and Donna C. Nelson, "Pedestrian Speed-Flow Relationship for CBD Areas in Developing Countries", Paper Presented in the 72th Transportation Research Board Annual Meeting, TRB, National Research Council, Washington D. C., Jan.9-14, 1993, pp. 69-74.
- 55. Taisir S. Khedaywi, Abdel Rahman Tamimi, **Hashem R. Al-Masaeid** and Khaled Khamaiseh. "Laboratory Investigation on Properties of Asphalt-Rubber Concrete Mixtures," Paper Presented in the 72th Transportation Research Board Annual Meeting, TRB, Transportation Research Council, Washington D. C., Jan. 9-14, 1993.
- 56. **Hashem R. Al-Masaeid**, Kumares C. Sinha and Thomas Kuczek, "Evaluation of Safety Impact of Highway Projects", Paper Presented in the 72th Transportation Research Board Annual Meeting, TRB, National Research Council, Washington D. C., Jan. 9-14, 1993.
- 57. **Hashem R. Al-Masaeid** and M. M. Hamed, "Impact of Pavement Condition on Traffic Speed", Paper Presented to a Special Committee in the 73 Transportation Board Annual Meeting, TRB, National Research Council, Washington D. C., USA, Jan. 9-13, 1994.
- **58. Hashem R. Al-Masaeid** and Kumares C. Sinha, "Analysis of Accident Reduction Potentials of Pavement Markings", Paper Presented in the 73th Transportation Research Board Annual Meeting, TRB, National Research Council, Washington D. C., Jan. 9-13, 1994.

- 59. **Hashem R. Al-Masaeid**, "Performance of Safety Evaluation Methods", Paper Presented in the 74th Transportation Research Board Annual Meeting, TRB, Transportation Research Council, Washington D. C., Jan. 22-28, 1995.
- 60. **Hashem R. Al-Masaeid**, "Pedestrian Accident Problem and Possible Safety Measures", Proceedings, the Seminar on Polices for Traffic Safety in Jordan, Traffic Directorate, Public Security Headquarter, Amman, Jordan, May 1995.
- 61. **Hashem R. Al-Masaeid** and Mohammad Z. Faddah, "Capacity of Roundabouts in Jordan", Paper Presented in the 76th Transportation Research Board Annual Meeting, TRB, Transportation Research Council, Washington D. C., Jan. 12-16, 1997
- 62. **Hashem R. Al-Masaeid** and Moh'd Khair T. Al-Shra'ah, "Impact of Police Enforcement on Speeding in Jordan", Proceedings, First Jordanian Conference on Traffic and Environment, Jordan Association of Engineers, Jordan, 13-15 May, 1997, pp. 35-46.
- 63. **Hashem R. Al-Masaeid** and Moh`d Khair T. Al-Shra`ah, "Effect of Police Enforcement on Drivers` Behaviour", Proceedings, 7th International Conference on "Traffic Safety on Two Continents", Organised by VTI, LNEC, TRB, and FERSI. Lisbon, Portugal, 22-24 Sep., VTI Konferens 9A, Part 8, 1997, pp. 35-57.
- 64. **Hashem R. Al-Masaeid**, "Traffic Calming: Experience, Measures, and Effectiveness", Proceedings, the Symposium on Traffic Calming and its Influence on Traffic Safety, Jordan Traffic Institute, Public Security Headquarters, Amman, Jordan, Dec. 15-16, 1997.
- 65. **Hashem R. Al-Masaeid** and Taisir S. Khedaywi, "Geometric Characteristics of Low-traffic Volume Roads in Jordan", Proceedings, Symposium on "Role of Scientific Research in Low-Volume Roads Projects", organised by Ministry of Public Works and Housing and Ministry of Transport in co-operation with The Higher Council for Science and Technology (Amman) and Arab Union Councils of Scientific Research, Amman, Jordan, Oct. 24-26, 1998.
- 66. **Hashem R. Al-Masaeid**, "Effectiveness of Road Safety Audit", Proceedings, The 9th International Conference on Road Safety in Europe, organised by VTI (Sweden) and BASt (Germany), Gladbach, Cologne, Germany, Sep. 21-23, 1998, VTI Konferens 10A, Part 1, pp. 89-101.
- 67. **Hashem R. Al-Masaeid**, "Characteristics and Costs of Road Accidents in Jordan", Proceedings, The International Conference on "Safety on Roads", organised by Bahrain University, Swedish Road and Transport Research Institute (Sweden), and General Committee for Road Safety (Bahrain), Oct. 26-28, 1998, pp. 306-310.
- 68. **Hashem R. Al-Masaeid**, "Characteristics and Cost of Pedestrian Accidents in Jordan",

- Proceedings, The 10th International Conference on "Traffic Safety on Two Continents", organised by TRB (USA), VTI (Sweden), and Bast (Germany), Malmo, Sweden, Sep. 20-22, 1999.
- **69. Hashem R. Al-Masaeid** and M. Arabiat, "Operating Cost of Mini Buses", Proceedings, the Conference on "Public Transport in Jordan", Jordan Traffic Institute, Public Security Headquarters, Amman, Jordan, Oct. 7-8, 1999.
- 70. Bashar H. Al-Omari and **Hashem R. Al-Masaeid**, "Driver Noncompliance at Traffic Signals in Jordan", Proceedings, Traffic Safety in Jordan Conference 2002, TraSiJ2002, Jordan Traffic Institute, Public Security Directorate, 8-10 April, 2002.
- 71. **Hashem R. Al-Masaeid**, "Consistency of Continuous Horizontal Curves under Adverse Weather Conditions", Proceedings, the Second International Conference on Safety on Roads, SORIC' 02, Bahrain, 21-23 Oct., 2002.
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19. References

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