

Naser Nawayseh
Date of Birth: 17th June 1970
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EDUCATION

- March 2004 **UNIVERSITY OF SOUTHAMPTON** Southampton, UK
PhD in Vibration with application of Human Responses to Vibration
- PhD from the Institute of Sound and Vibration Research (ISVR), University of Southampton (2000-2004)
 - Experimental and modelling experience in biodynamic responses to vertical and horizontal vibration
- May 1996 **UNIVERSITI SAINS MALAYSIA** Ipoh, Malaysia
MSc by research in Solar Energy and Heat Transfer
- Experimental and simulation experience in solar water desalination
 - In 1999, I was the first to publish a computer simulation paper on water desalination using a humidification-dehumidification cycle
- June 1993 **UNIVERSITY OF JORDAN** Amman, Jordan
BSc in Mechanical Engineering
- 1988 **AL-OROBAN SCHOOL** Amman, Jordan
The General Secondary Education Certificate Examination for 1988
- Average 90.7%
 - A⁺ in Mathematics, Physics, English language, Arabic language, Biology, and Islamic Education

EXPERIENCE

- 9/2007-present **DHOFAR UNIVERSITY (MANAGED BY THE AMERICAN UNIVERSITY OF BEIRUT)** Salalah, Sultanate of Oman
Assistant Professor, Mechanical Engineering Department
- Teach Mechanical Engineering courses
 - Conduct research on both fields of solar desalination and vibrations
 - Course coordinator for the Introduction to Engineering course
 - Assistant Chairperson of the University Research Board (URB)
 - Member of the College of Engineering Advisory Committee
 - Member of the College of Engineering Student Affairs Committee
 - Member of University Student Faculty Committee (USFC)
 - Member of the Governance and Management Committee (University Accreditation Purposes)
- 8/2004-8/2007 **UNIVERSITY OF SOUTHAMPTON** Southampton, UK
Research Fellow, Human Factors Research Unit, Institute of Sound and Vibration Research (ISVR)
- Consultancy work for the industry (aircrafts manufacturers, road vehicle manufacturers and vehicle seats manufacturers). This includes all communications with the customers (Quotations, performing the work, meetings and writing technical reports).
 - Conduct activities and research on human response to translational and rotational vibration (Whole-body biodynamics, seating dynamics, hand-arm vibration, anti-vibration gloves testing, postural stability, motion sickness)
 - Work on different European projects (e.g.):
 - COMPASS: Postural stability of standing people exposed to vibration
 - VIBSEAT: Measure, evaluate and assess the dynamic performance of horizontal suspension seats
 - Publish research results in refereed journals and conferences
 - Teach the biodynamic responses part of the human response to vibration MSc module
 - Give lectures and courses on biodynamic responses to vibration to the industry

- Review Journal papers for International Journals
- Help PhD students and junior researchers with their research
- Organise and chair seminars at the Human Factors Research Unit
- Member of a team working to get the Human Factors Research Unit ISO 9001 certified
- Manage the relocation of the Human Factors Research Unit to a new building

7/1996-7/1998 **FIRST ROBOTICS INDUSTRIAL SCIENCE** Penang, Malaysia

Lecturer, Mechanical Engineering Department

- Prepare lecture notes and exams
- Help in recruiting students

4/1994-8/1994 **FLUX ELECTRO MECHANICAL EST.** Amman, Jordan

- Site Engineer for electromechanical work
- Supervise and lead a team of 10 people

10/1993-4/1994 **BETA INDUSTRIES FOR ENGINEERING WORKS** Sahab, Jordan

- Boiler Design Engineer
- Programme and operate a Pullmax machine

COURSES I TAUGHT

- I have taught Introduction to Engineering, Strength of Materials, Properties of Materials, Mechanical Vibrations, Control Systems, Machine Design, Signals and Systems, Biodynamics, Thermodynamics, Fluid Mechanics, Heat Transfer, Statics, AutoCAD, Air Conditioning and Refrigeration, Solid Mechanics Lab and Mechanical Dynamics Lab.

SKILLS AND ACTIVITIES

- Computer skills: MS Word, MS Excel, MS Project, MS Power Point, AutoCAD, MATLAB, EndNote, Working Model, CorelDRAW, SPSS, HVLab, FORTRAN and C Language
- Languages: Arabic, English and Malay
- Reviewer to International Journals
- Member of the Jordan Engineering Association
- Attended several courses:
 - A 3-day workshop on successful teaching.
 - A seminar on A Model for Undergraduate Research: Implementing the Research Seminar Program at the University of Toronto.
 - An introduction to the processing and analysis of vibration data
 - Acoustics, noise and vibration
 - Signal processing and estimation
 - Biomedical signal processing
 - Safe use of overhead travelling crane incorporating safe lifting and slinging
 - AutoCAD 2008 training
 - Time Management
 - Building and Leading Teams
 - Project Management
 - Developing and Managing Research Teams
 - Motivating Students and Keep them Motivated
 - Supervising Masters Students
 - Innovative Approaches to Link Research and Teaching
 - Doing Research: Winning Grant Funding
 - Leading and Chairing Meetings
 - Doing Research: Advanced Proposal Writing
 - Design of Central Heating Systems
- I have a UK, a Jordanian and an Omani driving licences
- I like badminton and swimming

PUBLICATIONS

Journal Papers

- **Naser Nawayseh** and Michael J. Griffin (2009) A model of the vertical apparent mass and the fore-and-aft cross-axis apparent mass of the human body during vertical whole-body vibration. *Journal of Sound and Vibration* 319 (2009) 719–730.
- G.H.M.J. Subashi, **N. Nawayseh**, Y. Matsumoto, M.J. Griffin (2009) Nonlinear subjective and dynamic responses of seated subjects exposed to horizontal whole-body vibration. *Journal of Sound and Vibration* 321 (2009) 416–434.
- **Naser Nawayseh** and Michael J. Griffin (2009) Power absorbed by seated subjects exposed to vertical whole-body vibration. *Journal of Sound and Vibration* (Under review).
- **Naser Nawayseh** (2009) Modelling of desalination units based on humidification-dehumidification cycle. *Desalination and Water Treatment* (Under review).
- **Nawayseh N** and Griffin MJ (2006) Effect of frequency, magnitude and direction of translational and rotational oscillation on the postural stability of standing people. *Journal of Sound and Vibration*. 298, 725-754.
- **Nawayseh N** and Griffin MJ (2005) Tri-axial forces at the seat and backrest during whole-body fore-and-aft vibration. *Journal of Sound and Vibration* 281, 921-942.
- **Nawayseh N** and Griffin MJ (2005) Non-linear dual-axis biodynamic response to fore-and-aft whole-body vibration. *Journal of Sound and Vibration* 282, 831-862.
- **Nawayseh N** and Griffin MJ (2005) Effect of seat surface angle on forces at the seat surface during whole-body vertical vibration. *Journal of Sound and Vibration* 284, 613-634.
- **Nawayseh N** and Griffin MJ (2004) Tri-axial forces at the seat and backrest during whole-body vertical vibration. *Journal of Sound and Vibration* 277, 309-326.
- **Nawayseh N** and Griffin MJ (2003) Non-linear dual-axis biodynamic response to vertical whole-body vibration. *Journal of Sound and Vibration* 268, 503-523.
- **Nawayseh NK**, Farid MM, Al-Hallaj S and Al-Tamimi A (1999) Solar desalination based on humidification process-I. Evaluating the heat and mass transfer coefficients. *Energy Conversion and Management* (40), 1423-1439.
- **Nawayseh NK**, Farid MM, Omar A and Sabirin A (1999) Solar desalination based on humidification process-II. Computer simulation. *Energy Conversion and Management* (40), 1441-1461.
- **Nawayseh NK**, Farid MM, Omar A, Al-Hallaj S, and Tamimi A (1997) A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan. *Desalination* (109), 277-284.

Conference Papers

- **Nawayseh N** (2008) Modelling of desalination units based on humidification-dehumidification cycle. Accepted for presentation at EUROMED 2008 Desalination cooperation among Mediterranean countries of Europe and the MENA region. King Hussein Bin Talal convention centre, Dead Sea, Jordan, 9-13 November.
- **Nawayseh N** (2008) Modelling of the biodynamic responses to whole –body vertical vibration. Presented at the MESM’2008 (International Middle Eastern Multiconference), Philadelphia University, Amman, Jordan, 26-28 August.
- **Nawayseh N** and Griffin MJ (2005) Effect of frequency, magnitude and direction of translational and rotational oscillation on the postural stability of standing people. Presented at the 3rd International Conference on Whole-body Vibration Injuries, Palais des congrès - Nancy, France, 7-9 June.
- **Nawayseh N** (2005) Absorbed power at the seat, backrest and feet of subjects exposed to whole-body vertical vibration. Presented at the 40th United Kingdom Conference on Human Response to Vibration, held in Liverpool, England, 13-15 September.

- **Nawayseh N** (2004) Forces on the seat and backrest during fore-and-aft whole-body vibration: effect of foot support and vibration magnitude. United Kingdom Group Meeting on Human Responses to Vibration, held at Ludlow, Shropshire, England, 15-17 September.
- **Nawayseh N** (2003) Forces normal and parallel to the seat surface during whole-body vertical vibration: effect of seat surface angle and vibration magnitude. United Kingdom Conference on Human Responses to Vibration, Institute of Naval Medicine, Alverstoke, Gosport, PO12 2DL, England, 17-19 September.
- **Nawayseh N** (2002) Modelling the vertical and fore-and-aft forces caused by whole-body vertical vibration. United Kingdom Conference on Human Responses to Vibration, Department of Human Sciences, Loughborough University, UK, 18-20 September.
- **Nawayseh N** (2001) Non-linear behaviour and two dimensional movement of the human body in response to vertical vibration. United Kingdom Group Meeting on Human Response to Vibration, Centre for Human Sciences, QinetiQ, Farnborough, UK, 12-14 September.
- Farid MM, **Nawayseh NK**, Omar A and Sabirin A (1996) Simulation of a solar desalination unit based on air humidification-dehumidification cycle. Proc. Of the IASTED international conference, Golf Coast, Australia. 7-9 May
- Farid MM, **Nawayseh NK** Al-Hallaj S and Tamimi AR (1995) Solar desalination with humidification-dehumidification process: studies of heat and mass transfer, Proc. SOLAR'95 Conference, Hobart, Tasmania, pp293-306. 29 November- 1 December.

Technical Reports – Consultancy activities

- 11 internal reports on research projects and consultancy activities within the Human Factors Research Unit, Institute of Sound and Vibration Research, University of Southampton.

REFERENCES

Can be provided on request.