

Mohammed H.S. Zangana

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1. PERSONAL DETAILS:

Family name: Zangana

Given Name (s): Mohammed Haseeb Seedeq

Gender: Male

Date of birth: 08-02-1974

Nationality: Iraqi.

Home Address: Koya University Village, House No.27, Koya, Erbil, Kurdistan, Iraq.

Work Address: Chemical Engineering Department, Koya University, University Park, Daniel Miteran Boulevard
Koya, Erbil, Kurdistan, Iraq.

2. EMPLOYMENT HISTORY & WORK EXPERIENCE:

2011-Present: working at Petroleum and Chemical Engineering Department/ Koya University, Kurdistan, Iraq.

2007-2011: PhD student at Nottingham University, Nottingham, UK.

2004-2006: Worked at Petroleum Engineering Department / Koya University, Kurdistan. Iraq.

During the last ten years I have held the following academic administrative positions:

MAY 2015- Present: Working as the Acting Dean of the faculty of Engineering / Koya University.

July 2011- MAY 2015: Working as the head of Chemical Engineering Department at the faculty of Engineering / Koya University.

Dec. 2004- Dec. 2006: Appointed assistant Dean of the college of Engineering/ Koya University.

3. EDUCATION:

- **B.Sc.**, "Chemical Engineering", Chemical Engineering Department, Tikrit University, Iraq, 1992-1996.
- **M.Sc.**, "Petrochemical Engineering / Dehydration of Natural Gas", Chemical Engineering Department, Baghdad University, Iraq, 2001- 2004.
- **Ph.D.**, "Gas-Liquid Flow In Pipes / Oil And Gas Production", School of Chemical and Environmental Engineering, Nottingham University, UK, 2007-2011.

4. PUBLICATIONS:

- G.P., Van der Meulen, **M.Zangana**, Zhao, D. and Azzopardi, B. J., "Phase distribution measurements by conductance probes and pressure drop in gas-liquid flows". 7th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Krakow, Poland on June 28 - July 03, 2009.
- **M.Zangana**, G.P.van der Meulen and B.J.Azzopardi" The Effect of Gas and Liquid Velocities on Frictional Pressure Drop in Two Phase Flow for Large Diameter Vertical Pipe" 7th International Conference on Multiphase Flow, ICMF 2010, Tampa, FL, USA, May 30 – June 4, 2010.
- V. Hernández-Pérez, **M. Zangana**, R. Kaji and B.J. Azzopardi" Effect of pipe diameter on pressure drop in vertical two-phase flow" 7th International Conference on Multiphase Flow, ICMF 2010, Tampa, FL, USA, May 30 – June 4, 2010.

- G.P.van der Meulen, **M.Zangana** and B.J.Azzopardi” Film Measurements in Two-Phase Gas-Liquid Flow by Conductance Techniques in Vertical Large Diameter Pipes” 7th International Conference on Multiphase Flow, ICMF 2010, Tampa, FL, USA, May 30 – June 4, 2010.
- **M.Zangana** and B.J.Azzopardi ”Liquid Film Properties of Gas-Liquid Flow in Large Diameter Vertical Pipe” 1st International Conference on Petroleum and Mineral Resources 2012, Koya, Kurdistan, Iraq, December 4-6, 2012.
- **M.Zangana** and B.J.Azzopardi ”The Effect of Gas and Liquid Velocities on Total Two Phase Pressure Drop in Large Diameter Vertical Pipe” 8th International Conference on Multiphase Flow (ICMF 2013), Jeju, South Korea, May 26-31, 2013.
- **M. Zangana**, F. Ibrahim, A. Perot, K. Ibrahim and F. Khoshnaw "Production of Skin Lotions/Creams from Hammam Jalli's Mud", 1st International Symposium on Urban Development: Koya as a Case Study, Koya, Kurdistan, Iraq, December 16-18, 2013.
- **Mohammed H.S. Zangana**, Fakhri H.Ibrahim and Fuad M. Khoshnaw, 2014, Hammam Jalli as a Thermal Spring, IJAS Conference, Toronto, Canada, 19-22 May 2014.
- **Mohammed H.S. Zangana**, Fakhri H. Ibrahim and Fuad M. Khoshnaw, 2014, Hammam Jalli as a Thermal Spring, Academic Journal of Science, vol.3, no.2, pp.321-332.
- **Mohammed H. S. Zangana**, Ribwar K. Abdulrahman, Khasro Salih Ali and Immanuel Sebastine, 2015, The Effects of Declining Amine Contactor Tower Pressure on Rich Amine Loading: A Case Study and Simulation, International Journal of Engineering Trends and Technology (IJETT) – Volume 20 Number 1, pp 13-16.
- Jafar A. Ali, Ribwar K. Abdulrahman and **Mohammed H. Zangana**, 2015, The Production of Biodiesel from Animal Tallow to be Used for Electric Generators: A Case Study, Journal of Power and Energy, Volume 5, Number 1, pp. 17-23.
- Ribwar K. Abdulrahman, **Mohammed H.S. Zangana**, & Immanuel. M. Sebastine, 2015, The Optimal Super LNGs Recovery from a Natural Gas Stream by Utilizing Turbo Expander Process: A Case Study & Simulation. Journal of Chemistry and Technology of Fuels and Oils, issue no. 5, (ISSN 1573-8310), Springer.

5. INVITED TALKS/PRESENTATIONS/WORKSHOPS

- **M.Zangana** and B.J.Azzopardi (2007)” Slug flow in large diameter pipeline/bend/riser systems” oral presentation TMF4 conference held on 9-11th October in imperial college ,London.
- **M.Zangana** ,G.p.van der Meulen,Dr.D.Zhao and Professor B.J.Azzopardi (2008) “ Two phase flow in Large Diameter Pipes:effect of gas and liquid superficial velocities on pressure drop, film thickness and wall shear stress” TMF4 held on 1-2 April, Nottingham.
- G.p.van der Meulen , **M.Zangana** , ,Dr.D.Zhao and Professor B.J.Azzopardi (2008)” Vertical Two-phase gas-liquid flow in large diameter pipes” TMF4 held on 1-2 october in Imperial college, London.
- **M.Zangana** and Professor B.J.Azzopardi (2010) “The results from the local film pin probes” TMF4 held on 14-15 April, Imperial college, London.
- **M.Zangana** (2011) “Gas-Liquid Flow in Vertical Pipes” 11th October, Faculty of Engineering, Koya University, Koya, Erbil, Kurdistan Region-Iraq.
- **M.Zangana**, Fakhri H. Ibrahim and Zyad J. Talabany and Safein Y. Azaddin, (2012) “**Molecular Sieves, Reactor Design and Refinery**” Work shop for chemical engineers from Industry, held on 12-15 March, Salahaddin University, Erbil, Kurdistan.

6. POSTERS

- **M.Zangana** and B.J.Azzopardi, (2009), “Wall Shear Stress and Pressure Drop in Annular Two Phase Flow for Large Diameter Vertical Pipe” poster work submitted to Process & Environmental Research Division Conference, 29th June, Nottingham, UK.
- **M.Zangana** and B.J.Azzopardi, (2011), “Wall Shear Stress and Pressure Drop in Large Diameter Vertical Pipe” poster work submitted to TMF Meeting, 12-14th April, Nottingham, UK.

7. SEMINARS, MEETINGS AND WORKSHOPS ATTENDED

- UK-Japan meeting on multiphase flow held in Nottingham, UK on 6th and 7th of July 2007.

- TMF4 (Transient Multiphase Flow 4) meeting held in London /imperial college from 9-11th of October 2007.
- Seminar on Bubble Columns “when Bubbles Meet Gravity” by Professor Robert F. Mudde from TU-Delft University of Technology /Holland on 29 Feb. 2008.
- Seminar, “Modeling and Numerical Predication of Bubble Flow using Euler-Lagrange Approach”, by professor M. Sommer Field from Martin Lauther University/Germany on 4 march 2008.
- All postgraduate Research Seminars 2008, Nottingham University, from 4th of Feb. until 21st of April .2008.
- “Multiphase Research at ICPF CAS CZ’institute of Chemical Process Fundamentals”, Prague Czech Republic by Maria Fugasova on 17th April 2008.
- Advanced Two Phase Flow Measurements Technique at Research Centre Dresden-Rossendorf/ Germany, sensor, systems and applications by Dr. Uwe Hampel, on 03 April .2008.
- “Multiphase systems Applications in oil and gas industry”, by Paul Fairhurst on 2nd May 2008.
- Seminar by Victor Starov , loughbrough university “*Current problems in kinetics of wetting and spreading*” 3rd December 2008.
- Seminar by Carlos Torres, Los Andes university “flow transitions of oil-water two-phase flow in horizontal pipes” 10th December 2008.
- Seminar by Dr.Arian Porch, Cardiff university “Microwave resonators for electronic materials characterisation” 11-2-2009.
- Seminar by Professor Nina Thorn hill, Imperial College London "Advances and new directions in detection and diagnosis of plant-wide disturbances" 11th March 2009.
- Multiphase Flow Transient 4 (TMF4) meeting held in Nottingham from 1-4 April 2009 at Nottingham University.
- Engineering mechanics symposium 2009, on 20th of May 2009.
- Seminar by Mr.Neil Morris, Vice president, BP, “The role of an international oil company in the changing energy landscape” on 3rd of June 2009.
- *Seminar by Alan Line, Professor at University of Toulouse, France, “Liquid-liquid flow in horizontal pipe”* Friday, 25th June 2010.
- Work shop by Dr.Mohammed Arubeai (2011), “Development skills in Research Methodology”, on 13th October, Faculty of Engineering, Koya University, Koya, Erbil, Kurdistan.
- First International Symposium on Urban Development: Koya as a Case Study, Koya, Kurdistan, Iraq, December 16-18, 2013.
- The Chemical Engineering Faculty Workshop, 2014, Iraq Chemical Safety and Security for Engineers Workshop, 13-15, October 2014, Kuala Lumpur, Malaysia.

8. TRAINING COURSES:

Name of the Course	Duration	Place
Training Course in Exploration Petroleum System By TPA	4 th -6 th July 2006	Irbid, Jordan
G.U.N.T. Training For : Fundamental of Fluid Mechanics Introduction to The Technical Training System in Germany Introduction of The Design and Manufacturing Process Of Educational Equipment	27 th July- 2 nd August 2006	Hamburg, Germany
Handling and Lifting Training	24 th October 2007	Nottingham, UK
STAR-CD And STAR-CCM+ Training Course By CD-Adapco	20 th -22 nd January 2009	Nottingham, UK
Laboratory Safety	18 th February 2009	Nottingham, UK
The Intermediate NI LABVIEW	28 th May 2010	Nottingham, UK
The Handling and Disposal of Broken Glass	26 th June 2010	Nottingham, UK
Flow Assurance With OLGA By SPT Group	29 th -31 st March 2011	Guildford, UK
Iraq Chemical Safety and Security for Engineers Workshop	13-15, October 2014	Kuala Lumpur, Malaysia
Pro Max- Oil and Gas Focus	26-28, July 2015	Abu-dhabi, UAE

9. ADDITIONAL SKILLS:

Language: **Kurdish, English and Arabic.**

Computer: **STAR-CD** and **STAR-CCM+** for **CFD** (Computational Fluid Dynamics), **OLGA** (Oil and Gas Flow Assurance), **Microsoft office (Word, Excel and power point).**