



**Petroleum University of Technology**

## **CURRICULUM VITAE**

**Massoud Aghajani**



### **CONTACT INFORMATION:**

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### **PERSONAL DETAILS:**

Date of Birth: 1959

Citizenship: Iranian

Marital Status: Married

### **EDUACTION:**

2001, Ph.D. in Chemical Engineering, University of Surrey, Guildford, Surrey, England

Thesis: Study of Bed Voidage and Heat Transfer in Solid/Liquid Fluidized Bed Heat Exchanger.

1987, M.Sc. in Chemical Engineering, AmirKabir University of Technology, Tehran, Iran

Thesis: Design of Pilot Plant of Acid Acetic And N, N Di-Ethyl Meta-Tolomide From Meta-Xylen

1985, Bachelor of Science in Chemical Engineering, AmirKabir University of Technology, Tehran, Iran

### **PRESENT POSITION:**

2001-Present

Assistant Professor, Department of Gas Engineering, Ahwaz Faculty of Petroleum Engineering, Petroleum University of Technology, Ahwaz-Iran

### **WORKING EXPERIENCE:**

1985-1987

Senior Engineer, National Iranian Gas Company, Tehran-Iran

1987-2001

Academic Staff, Department of Chemical Engineering, School of Petroleum Engineering, Petroleum University of Technology, Ahwaz-Iran

1989-1993

Technical Advisor, Iran Carbon Company, NIPC, Ahwaz-Iran

1991-1995

Academic Staff (part time), Azad University of Omidiyeh, Omidiyeh-Iran

1995-1996

Head of Education office, School of Petroleum Engineering, Petroleum University of Technology, Ahwaz-Iran.

2004-2006

General Manager for Research, Petroleum University of Technology, Tehran-Iran

2001-2006

Technical Advisor, Process Research Manager, Documentation and Patenting Manager, MTP Project Manager; Advisor of Managing Director ;National Petrochemical Company, Research and Technology Company, NPC-RT, Tehran-Iran

2006-2010

Tehran Center Director and Member of the Board; National Petrochemical Company, Research and Technology Company, NPC-RT, Tehran-Iran

#### **RESEARCH ACTIVITIES:**

1. Heat transfer & Heat Transfer in Fluidized Beds
2. Hydrodynamics of Fluidized Beds
3. Oil and Gas Reservoir- EOR
4. Process Control
5. Petrochemical Processes

#### **TEACHING EXPERIENCE:**

1. Thermodynamics
2. Heat Transfer
3. Process Control
4. Petrochemical Processes
5. Fluid Mechanics
6. Mass and Energy Balance
7. Fundamental of Petroleum Industry Processes
8. Fluid Mechanics Lab.
9. Heat Transfer Lab.
10. Process Control Lab.

#### **SUPERVISION:**

1. Chemical & Petroleum Engineering Undergraduate Final Year Projects
2. Gas and Petroleum Engineering Postgraduate Final Year Projects
3. Summer Trainings in Oil, Gas & Petrochemical Industries

## LIST OF SELECTED PUBLICATIONS:

1. **M. Aghajani**, H. Müller-Steinhagen and M. Jamialahmadi, "New Design Equations for Liquid/Solid Fluidized Bed Heat Exchangers", *International Journal of Heat and Mass Transfer*, Vol. 48, Issue 2, PP. 317-329, January 2005.
2. **M. Aghajani**, H. Müller-Steinhagen and M. Jamialahmadi, "Experimental Results and Models for Hydrodynamics of Solid/Liquid Fluidized Beds Involving Newtonian and non-Newtonian Liquids", *Developments in Chemical Engineering and Mineral Processing*, Vol. 12 (3/4), PP. 403-426, 2004.
3. **M. Aghajani**, H. Müller-Steinhagen and M. Jamialahmadi, "Heat Transfer of Solid/Liquid Fluidized Beds for Newtonian and Non-Newtonian Fluids", *Iranian Journal of Chemistry and Chemical Engineering*, Vol. 23, No. 1, 2004.
4. **M. Aghajani**, H. Müller-Steinhagen and M. Jamialahmadi, "New Design Equations For Liquid/Solid Fluidized Bed Heat Exchangers", *Fourth International Conference on Compact Heat Exchangers and Enhancement Technology for the Process Industries*, Crete Island, Greece, September 29-October 3, 2003.
5. A. Gashtasbi Asl, M. Jamialahmadi, **M. Aghajani**, R. M. Behbahani, "Using Solid/Liquid Fluidized Beds for Heat Transfer Enhancement in Phosphoric Acid Evaporation System", 8<sup>th</sup> National Chemical Engineering Congress, October 2003, Mashhad, Iran.
6. A. Gashtasbi Asl, M. Jamialahmadi, **M. Aghajani**, R. M. Behbahani, "Effect of Solid/Liquid Fluidized Beds on Fouling of Low Soluble Salt in Phosphoric Acid Evaporation System", 6<sup>th</sup> National Chemical Engineering Congress, April 2001, Isfahan, Iran.
7. **M. Aghajani**, M. Jamialahmadi, M.R. Ehsani, H. Behbahani, "Effect of Liquid Viscosity on the Heat Transfer in Solid/Liquid Fluidized Beds", 5<sup>th</sup> National and 4<sup>th</sup> International Chemical Engineering Congress, April 2000, Shiraz, Iran.
8. M. Jamialahmadi, M.R. Malayeri, **M. Aghajani**, "Prediction of Bed Voidage in Solid/Liquid Fluidized Bed Using Kinetic Theory of Gases", *Iranian Journal of Chemistry and Chemical Engineering*, No. 1, 1998.
9. **M. Aghajani**, M. Jamialahmadi, "Effect of Liquid Viscosity on the Bed Voidage in Solid/Liquid Fluidized Beds", 4<sup>th</sup> National Chemical Engineering Congress, March 1998, Tehran, Iran.
10. E. Akhond Dezfuly, M. Jamialahmadi, **M. Aghajani**, "Prediction of Heat Transfer in Solid/Liquid Fluidized Beds", 3<sup>rd</sup> National Chemical Engineering Congress, March 1997, Ahwaz, Iran.
11. M. Jamialahmadi, **M. Aghajani**, E. Akhond Dezfuly, "Prediction of Bed Voidage in Solid/Liquid Fluidized Beds", 2<sup>nd</sup> International and 12<sup>th</sup> National Chemistry and Chemical Engineering Congress, September 1997, Kerman, Iran.
12. M. Jamialahmadi, **M. Aghajani**, M.R. Malayeri, "The Role of Solid/Liquid Fluidized Bed Heat Exchangers in Energy Optimization", 2<sup>nd</sup> National Energy and Economics Congress, February 1995, Tehran, Iran.
13. M. Jamialahmadi, M.R. Malayeri, **M. Aghajani**, "Heat Transfer Mechanism in Solid/Liquid Fluidized Beds", 3<sup>rd</sup> annual ISME Conference, May 1995, Tehran, Iran.