



CURRICULUM VITAE
MOHSEN EDALAT

EDUCATION:

1968, MSc

Chemical Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran

1971, MSc

Energy Engineering (Fluid Mechanics and Heat Transfer), University of Illinois, USA

1974, PhD

Chemical Engineering,
University of Illinois, USA

Ph.D. DISSERTATION: Applied Phase Equilibrium Thermodynamics for Prediction Physical Properties of Hydrocarbons and Hydrocarbon Mixtures in Oil and Gas Reservoirs

EMPLOYMENT RECORD:

1968 -1970 Chief Engineer, in charge of power and water treatment unit, Kashan, Iran

1970 - 1972 Teaching Assistant, Energy Engineering, University of Illinois,
USA

1071 – 1973 Process Engineer, Consulting Engineering, Chicago, USA

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

- 1972 -1974 Research Assistant, Chemical Engineering, University of Illinois, USA
- 1974 – 1976 Research Engineer Standard Oil Company, Ill. USA
- 1976 - 1979 Head of Chemical Engineering and Heat Transfer Department, Atomic Energy Organization of Iran, Tehran, Iran
- 1980 -1982 Chief Engineer, in charge of gas gathering system (two phase flow) of Sarkhon region, Iranian Gas Company, Tehran, Iran
- 1980 - 2008 Assistant, Associate and Professor of Chemical Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran
- 1996 - 1998 Visiting Professor, Chemical Engineering, University of Illinois, Chicago, Illinois

CONSULTING RECORD:

- 1980 - 1985 National Iranian Oil Company
- 1980 - 1992 National Iranian Gas Company
- 1988 - 1996 Iranian Research Organization for Science and Technology, National Iranian Oil Company
- 1989 - 1996 Chemical Industry Organization, Tehran, Iran

TEACHING EXPERIMENT:

1 - UNDERGRADUATE COURSES

Heat Transfer
Material and Energy Balances
Mass Transfer
Natural Gas Transmission and Distribution
Plant Design
Thermodynamics
Fluid Mechanics
Two Phase Flow
Applied Mathematics

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

2 - GRADUATE COURSES

Advanced Thermodynamics Phase Equilibrium
Advanced Heat Transfer
Advanced Mass Transfer
Advanced Fluid Mechanics
Nuclear Engineering (Heat Transfer)
Applied Mathematics in Chemical Engineering
Special Topics (Supper Critical Fluid Extraction, Miscibility and Porous Media)

EDITORIAL ACTIVITIES:

Editorial Board Member:

- a- Journal of Chemistry and Chemical Engineering.
- b- International Journal of Engineering.
- c- Journal of Science and Technology Chemical Journal.
- d - Chief Editor, Iranian Society of Petroleum Engineering.

PROFESSIONAL ACTIVITIES:

- 1 - Establishment of the Undergraduate Heat Transfer Laboratory, Faculty of Engineering, Tehran University
- 2 - Establishment and Management of the Undergraduate Thermodynamics Laboratory Faculty of Engineering, Tehran University
- 3 - Chairman of the Third Congress of Oil and Petrochemical, 1990
- 4 - Member of National Program Committee on Chemical Engineering
- 5 - Head of Executive Committee of the First International Non-Renewable Energy Congress, 1993
- 6 - Chairman of the First Iranian Chemical Engineering Congress
- 7 - Head of Iranian Association of Chemical Engineering (IACHe)
- 8 - American Institute of Chemical Engineering (AIChE) Member

TECHNICAL REVIEWER FOR TECHNICAL PAPERS:

- 1 - Journal of Chemistry and Chemical Engineering
- 2 - Kimia Journal of Engineering
- 3 - International Journal of Engineering
- 4 - Journal of Science and Technology
- 5 - Journal of Polymer Engineering
- 6 - Journal of Pazhoohesh

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

7 - Journal of Energy Source

8 – Fuel Journal

INDUSTRIAL EXPERIENCE:

1975 - 1976 Argonne National Laboratory, Study Theoretical Operation of Nuclear Power Plant (Pressurized Water Reactor, PWR), Argonne, IL

1976 - 1977 Westinghouse, Operation and Management of PWR Nuclear Power Plant, Westinghouse, Pittsburgh, PA. USA

1980 - 1985 National Iranian Gas Company
Supervising and designing gas pipeline network for the City of Tehran.
Designing two phase flow gas pipe-line from a field to a processing plant (Sarkhon- Bandar Abbas), Tehran, Iran

1985 – 1987 Research on two phase flow systems and heat transfer in two phase flow, University of Huston, Texas, USA

1988 - 1997 Iranian Research Organization for Science and Technology, Tehran, Iran.

1990 - 1997 Consulting Kashan Chemical Industry Corporation, Producing Hemopolymer and Copolymer of Vinyl acetate.

1997 - 1998 Supercritical Carbon Dioxide Extraction for the removal of hazardous organic contaminants from soils and sludge at Institute of Gas Technology (IGT). IL. USA

PUBLICATION:

Book:

- 1- " Chemical Engineering, Transport Phenomena" Tehran University, 1995
- 2- "Design " Chemical Engineering, Tehran University, under publication, 2008
- 3- " Chemical Engineering Thermodynamics, Tehran University, under publication, 2008.
- 4- "Advanced Heat Transfer" Tehran University, under publication, 2008

Papers:

Conference Secretariat: 430, Beheshti Ave., Tehran, Iran
Tel.: (+98 21) 88556492~6 Fax: (+98 21) 88719960

www.iranpipetech.com

- 1 - Cost of Water in Dual-Purpose Nuclear Desalination Plants, Proceeding of the Third Congress of Chemical Engineering, 1977
- 2 - The Busheher 200,00 Mt/d Desalination Plant. Desalination, 26/1978.
- 3 - Optimization Parameter and Exponents of Mie (n,m), Intermolecular Potential Energy Function Based on the shape of molecules. International J. of Thermophysics, Vol.1/No. 2/1980.
- 4 - The Three-Parameter Corresponding State Principles. J. of Thermophysics, Vol. 1/No. 3/1980.
- 5 - A New Model for Designing Gas Distribution Network. J. of Chemistry and Chemical Engineering No. 9/1987.
- 6 - Design of Thickener, J. of Chemistry and Chemical Engineering, No. 10/1988
- 7 - Buried Gas Transmission Pipelines, J. of Energy Source Vol. 10/1988
- 8 - Prediction of Gas Temperature Profile of Buried Gas Pipelines. International J. of Engineering, Vol. 2/No. 112/1989.
- 9 - Thermal design of Agitator, Kimia, No.12/1990, No. 2/1991 and No. 3/1991.
Selection of Suitable Materials for Heat Exchangers, Kimia, No. 5 and No. 6/1991.
- 10 - An Equation of State based on Hard Sphere compressible Factor. The Sixth Chemical Engineering Congress, University of Tehran, Tehran, Iran, Shahrivar 1991
- 10 - Generalized Equation Predicts Vapor Pressure of Hydrocarbons, Oil & Gas J. 1993.
- 11 - A Correlation for Prediction of the Adiabatic Joule-Thomson Coefficient of Pure Gases and Gas Mixtures, J. of Chemistry and Chemical Engineering, 1993.
- 12 - An Introduction to the International Non-Renewable Energy Sources Congress, Proceeding of the International Non-Renewable Energy Sources Congress, 1993.
- 13 - Non-Renewable Energy Sources, Proceeding of the International Non-Renewable Energy Sources Congress, 1993.
- 14 - Removal of Oil from Seawater, J. of Engineering, 1995.
- 15 - Prediction of the Rate of Oil Removal from Seawater by Evaporation and Dissolution, Petroleum Science & Engineering, 16,1996.
- 16 - Storage of Natural Gas in Liquids, Proceeding of the 5th World Congress of Chemical Engineering, San Diego, CA. 1996.
- 17 - The Non-Regular solubility Parameter for Predicting Onset and Amount of Asphaltene Precipitate. GlobEx 2000 Conference proceeding July23-28, 2000.
- 18 - The Application of Continuous Three- Dimensional Solubility Parameter Distribution for Modeling Asphaltene Phase behavior in Crude Oils. Canadian Chemical Engineering Conference Proceeding 14-17, Oct. 2001.
- 19 - The Non-Regular solubility Parameter for Predicting Onset and Amount of Asphaltene Precipitate. Journal of Petroleum Engineering Science, July 2001.

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

- 20 – Thermal Diffusion Factor and Soret Coefficient in Binary and Multicomponent Mixtures. International Conference on Fluid and Thermal Energy Conversion. Bali, Indonesia, December 7-11,
- 21 – A Thermodynamic Model for Soret Coefficient. Proceeding of Eighth Congress of Chemical Engineering. Mashhad, Iran, Mehr 1382
- 22 – Storage of Natural Gas in Liquid Hydrocarbons and Study of Solubility in Tehran Refinery Faculty of Engineering J.
- 23 – Developing a Thermodynamics Model for Determining the Amount of Precipitated Asphaltene, 9th Iranian Chemical Engineering Congress November 2004.
- 24 – A New Cubic EOS for Prediction of PVT Phase Behavior of Fluids (Pure & Mixture) Based on Perturbation and Partition Function Theory, 9th Iranian Chemical Engineering Congress November 2004.
- 25 – Critical Properties Calculation, 9th Iranian Chemical Engineering Congress November 2004.
- 26 – Phase Behavior Assessment of Deposition Compound (Asphaltene) in Heavy Oil, 9th Iranian Chemical Engineering Congress November 2004.
- 27 – Estimation of Outlet Temperature of Drop Pressure Valve in NGL Process by Using Joule Thompson Factor, 9th Iranian Chemical Engineering Congress November 2004.
- 28 – A New Equation for Prediction of Hydrocarbons Acentric Factor, 9th Iranian Chemical Engineering Congress November 2004.
- 29 – Minimum Miscible Pressure through Thermodynamics Relations, 9th Iranian Chemical Engineering Congress November 2004.
- 30 – A Thermodynamic Model for determining the Amount of Asphaltene Precipitation, Canadian International Petroleum Conference, CIPC 048, June 7-9, 2005
- 31 – Prediction of Phase Behavior of Asphaltene in Heavy Oil with a New Equation of State, Canadian International Petroleum Conference, CIPC 049, June 7-9, 2005
- 32 – A Two Parameters Equation of State for Phase Equilibrium Behavior of reservoir and Liquefied Natural Gas, Prediction of Phase Behavior of Asphaltene in Heavy Oil with a New Equation of State, Canadian International Petroleum Conference, CIPC 078, June 7-9, 2005
- 33-Correlation of Phase Equilibrium of Amino acids, Fluid Phase equilibria, 4 November 2005
- 34 - Phase behavior of Amino Acid in Aqueous solutions Using the Modified Wilson Model, Journal of Biochemistry, Feb. 2006
- 35 – Simple Cubic Equation of State predicts Properties of Pure Hydrocarbons, Mixtures, Oil and Gas Journal, Nov. 28, 2005.
- 35- A simplified thermodynamic modeling procedure for predicting asphaltene precipitation, Fuel, 19 June 2006
- 36-Analytical Calculation of Minimum Miscibility Pressure by Using Stability Analysis in Reduced Variable Space, SPE 106348, 21-23 May 2006

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

- 37- Calculation of Minimum Miscibility Pressure by Using Stability Analysis in Reduced Variable Space, Iranian Chemical Engineering Conference, Dec 2006
- 38- Prediction the Minimum Miscibility Pressure of Iranian Oil Reservoir, Iranian Chemical Engineering Conference, Dec 2006
- 39- New Equations for Hard-Spheres in Different Density Ranges and A New Cubic Equation of State for Pure Hydrocarbons, Iranian Chemical Engineering Conference, Dec 2006
- 40- A New Correlation for Predicting the Minimum Miscibility Pressure of Crude Oil Reservoirs, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006
- 41- A New Equation of State Based on Hard-Sphere-Chain Perturbation Applied to Predict Properties of Bimolecule-Water System, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006
- 42- A New Equation of State Predicts Phase Behavior of Hydrocarbons and Hydrocarbon Mixtures of Iranian Oil Reservoirs
- 43- Developing a Scaling Equation as a Function of Pressure to Determine the Onset of Asphaltene Precipitation, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006
- 44- Development of a New Artificial Neural Network Model for Predicting Minimum Miscibility Pressure in Hydrocarbon Gas Injection, SPE 105407, 14 March 2007
- 45- Derivation of new Cubic EOS based on partition function for small and large molecule, Proceeding of International Chemical Engineering Congress 2008.
- 46- A New Cubic Equation of State with a Theoretical Attraction Term and α Function for Prediction of Phase Behavior in High Pressure Gas Reservoirs. Proceeding of International Chemical Engineering Congress 2008.
- 47- A new method for Monte Carlo simulation of chain molecules with soft potentials. Proceeding of International Chemical Engineering Congress 2008.
- 48- Characterization of the plus fraction using distribution functions for the Iranian South Pars gas condensate reservoir. Proceeding of International Chemical Engineering Congress 2008.
- 48- Developing a scaling equation as a function of pressure to determine the onset of asphaltene precipitation. Journal the Japan Petroleum Institute, 2008
- 49- Application of continuous polydisperse molecular thermodynamics for modeling asphaltene precipitation in crude oil systems. Energy and Fuel Journal, 2008.
- 50- A New Hard Sphere Cubic Equation of State for Predicting Fluids' Properties and Vapor-Liquid Phase Equilibrium Calculations. Journal of Phase Equilibria and Diffusion, 2008
- 51- A new approach in prediction of asphaltene precipitation by using association model. " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "
- 52- Vapor-liquid-wax multisolid equilibrium parameters sensibility analysis for multiphase multisolid wax precipitation modeling. " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

- 53 - " Continuous thermodynamics modeling of asphaltene precipitation as associating system in crude oil mixture. " Accepted for " The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology “
- 54 - Experimental calculation of asphaltene critical properties in crude oil reservoir systems. " Accepted for " The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology “
- 55 -A new approach in continuous polydisperse molecular thermodynamics for modeling asphaltene precipitation in crude oil systems " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic “
- 56-Prediction of wax precipitation by neural network and genetic algorithm and comparison with multisolid model in crude oil systems. " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic “
- 57- Application of artificial neural network (ANN) , genetic programming neural network (GPNN) and neuro-fuzzy (NF) for prediction of asphaltene precipitation in live and tank crude oil systems " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic “
- 58- An extension of cubic equations of state to vapor-liquid-solid equilibria in asphaltene-toluene mixture and crude oil system. " The 5th International Chemical Engineering Congress (IChEC 2008) "
- 59- New correlation and intelligent modeling of experimental data of slim tube permeability reduction by asphaltene precipitation in Iranian crude oil reservoirs. " The 5th International Chemical Engineering Congress (IChEC 2008) “
- 60- Experimental calculation of permeability reduction of porous medium by asphaltene precipitation in crude oil systems. Accepted for "The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology “
- 61- Prediction of wax precipitation by Neural Network and Genetic Algorithm and comparison with Multisolid model in crude oil systems. " Accepted for " The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology “
- 62- Prediction of wax precipitation by Neural Network and Genetic Algorithm and comparison with Multisolid model in crude oil systems. " Submitted for " Energy & Fuels “
- 63- Continuous thermodynamics modeling of asphaltene precipitation as associating system in crude oil mixture. " Submitted for " Energy & Fuels “

INVITED PRESENTATION:

- 1 - A Self-Consistent Approach to the Three-Parameter Corresponding State Principles, 69th Annual AIChE Meeting, Chicago, IL, 1976.

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

2 - Dual Purpose Nuclear Desalination Plants, International Atomic Energy Agency, wien, Austria, 1976.

3 - The Busheher 200,00 Mt/d Desalination Plant. Desalination Symposium, Tokyo, Japan 1977.

4 - Cost of Water in Dual-Purpose Nuclear Desalination Plants, the Third Chemical Engineering Congress, Shiraz, Iran, 1977.

5 - A New Vapor Pressure Equation, the Fifth Chemistry and Chemical Engineering Congress, Tehran, Iran, 1990.

6 - A New Vapor Pressure Equation. 1991, Mid-West Thermodynamics Symposium, Osage Beach, Missouri, May 12-14, 1991

6 - An Equation of State based on Hard Sphere compressible Factor. The Sixth Chemical Engineering Congress, University of Tehran, Tehran, Iran, Shahrivar 1991.

7 - Removal of Dispersal petroleum Fraction from Seawater, the Sixth Chemistry and Chemical Engineering Congress, Tehran, Iran, 1991.

8 - Two Phase Flow in Gas Pipeline, the Oil and Gas Congress, Tehran, Iran, 1992.

9 - An Introduction to the International Non-Renewable Energy Sources Congress, the International Non-Renewable Energy Sources Congress, Tehran, Iran, 1993.

10 - Non-Renewable Energy Sources, the International Non-Renewable Energy Sources Congress, Tehran, Iran 1993.

11 - Storage of Natural Gas in Liquids, the 5th World Congress of Chemical Engineering, San Diego, CA. 1996.

12 – Rate of Oil Evaporation and Dissolution from Sea Water, Presented at the international Desalination Association (IDA) World Congress, Abu Dubi UAE Nov. 18-24, 1995

13 – The Non-Regular solubility Parameter for Predicting Onset and Amount of Asphaltene Precipitate. GlobEx 2000 Conference July 23-28, 2000.

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

14 – The Application of Continuous Three- Dimensional Solubility Parameter Distribution for Modeling Asphaltene Phase behavior in Crude Oils. Canadian Chemical Engineering Conference. 14-17, Oct. 2001.

15 - The Non-Regular solubility Parameter for Predicting Onset and Amount of Asphaltene Precipitate. SPE Production and Operation, July 2001.

16 - A Thermodynamic Model for Soret Coefficient. Proceeding of Eighth Congress of Chemical Engineering. Mashhad, Iran, Mehr 1382

17 – Developing a Thermodynamics Model for Determining the Amount of Precipitated Asphaltene, 9th Iranian Chemical Engineering Congress November 2004.

18 – A New Cubic EOS for Prediction of PVT Phase Behavior of Fluids (Pure & Mixture) Based on Perturbation and Partition Function Theory, 9th Iranian Chemical Engineering Congress November 2004.

19 – Critical Properties Calculation, 9th Iranian Chemical Engineering Congress November 2004.

20– Phase Behavior Assessment of Deposition Compound (Asphaltene) in Heavy Oil, 9th Iranian Chemical Engineering Congress November 2004.

21 – Estimation of Outlet Temperature of Drop Pressure Valve in NGL Process by Using Joule Thompson Factor, 9th Iranian Chemical Engineering Congress November 2004.

22 – A New Equation for Prediction of Hydrocarbons Acentric Factor, 9th Iranian Chemical Engineering Congress November 2004.

23 – Minimum Miscible Pressure through Thermodynamics Relations, 9th Iranian Chemical Engineering Congress November 2004.

24 – A Thermodynamic Model for determining the Amount of Asphaltene Precipitation, Canadian International Petroleum Conference, CIPC 048, June 7-9, 2005

25 – Prediction of Phase Behavior of Asphaltene in Heavy Oil with a New Equation of State, Canadian International Petroleum Conference, CIPC 049, June 7-9, 2005

26 – A Two Parameters Equation of State for Phase Equilibrium Behavior of reservoir and Liquefied Natural Gas, Canadian International Petroleum Conference,

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

CIPC 078, June 7-9, 2005

36-Analytical Calculation of Minimum Miscibility Pressure by Using Stability Analysis in Reduced Variable Space, SPE 106348, 21-23 May 2006

37- Calculation of Minimum Miscibility Pressure by Using Stability Analysis in Reduced Variable Space, Iranian Chemical Engineering Conference, Dec 2006

38- Prediction the Minimum Miscibility Pressure of Iranian Oil Reservoir, Iranian Chemical Engineering Conference, Dec 2006

39- New Equations for Hard-Spheres in Different Density Ranges and A New Cubic Equation of State for Pure Hydrocarbons, Iranian Chemical Engineering Conference, Dec 2006

40- A New Correlation for Predicting the Minimum Miscibility Pressure of Crude Oil Reservoirs, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006

41- A New Equation of State Based on Hard-Sphere-Chain Perturbation Applied to Predict Properties of Bio-molecule-Water System, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006

42- A New Equation of State Predicts Phase Behavior of Hydrocarbons and Hydrocarbon Mixtures of Iranian Oil Reservoirs, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006

43- Developing a Scaling Equation as a Function of Pressure to Determine the Onset of Asphaltene Precipitation, 11th Asian Pacific Confederation of Chemical Engineering Conference, APCCHE, 30 Aug. 2006

44- Development of a New Artificial Neural Network Model for Predicting Minimum Miscibility Pressure in Hydrocarbon Gas Injection, SPE 105407, 14 March 2007

45-Application of continuous polydisperse molecular thermodynamics for modeling asphaltene precipitation in crude oil systems. International Chemical Engineering Congress, 2008.

46- Derivation of new Cubic EOS based on partition function for small and large molecule, International Chemical Engineering Congress 2008.

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

47- A New Cubic Equation of State with a Theoretical Attraction Term and α Function for Prediction of Phase Behavior in High Pressure Gas Reservoirs, International Chemical Engineering Congress 2008.

48- A new method for Monte Carlo simulation of chain molecules with soft potentials, International Chemical Engineering Congress 2008.

49- Characterization of the plus fraction using distribution functions for the Iranian South Pars gas condensate reservoir, International Chemical Engineering Congress 2008.

50- A new approach in prediction of asphaltene precipitation by using association model. " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "

51- Vapor-liquid-wax multisolid equilibrium parameters sensibility analysis for multiphase multisolid wax precipitation modeling. " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "

52- " Continuous thermodynamics modeling of asphaltene precipitation as associating system in crude oil mixture. " Accepted for " The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology "

53 - Experimental calculation of asphaltene critical properties in crude oil reservoir systems. " Accepted for " The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology "

54-A new approach in continuous polydisperse molecular thermodynamics for modeling asphaltene precipitation in crude oil systems " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "

55-Prediction of wax precipitation by neural network and genetic algorithm and comparison with multisolid model in crude oil systems. " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "

56- Application of artificial neural network (ANN) , genetic programming neural network (GPNN) and neuro-fuzzy (NF) for prediction of asphaltene precipitation in live and tank crude oil systems " Accepted for " 18th INTERNATIONAL CONGRESS OF CHEMICAL AND PROCESS ENGINEERING 24 - 28 August 2008, Praha, Czech Republic "

57- An extension of cubic equations of state to vapor-liquid-solid equilibria in asphaltene-toluene mixture and crude oil system. " The 5th International Chemical Engineering Congress (ICChE 2008) "

58- New correlation and intelligent modeling of experimental data of slim tube permeability reduction by asphaltene precipitation in Iranian crude oil reservoirs. " The 5th International Chemical Engineering Congress (ICChE 2008) "

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

59- Experimental calculation of permeability reduction of porous medium by asphaltene precipitation in crude oil systems. Accepted for "The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology “

60- Prediction of wax precipitation by Neural Network and Genetic Algorithm and comparison with Multisolid model in crude oil systems. " Accepted for " The 12th Iranian Chemical Engineering Congress 21-23 October 2008 –Sahand University Of Technology “

61- Prediction of wax precipitation by Neural Network and Genetic Algorithm and comparison with Multisolid model in crude oil systems. " Submitted for " Energy & Fuels “

62- Continuous thermodynamics modeling of asphaltene precipitation as associating system in crude oil mixture. " Submitted for " Energy & Fuels “

PROJECT ACHIEVEMENT:

- 1-Miscible Gas Injection in Cheshmeh-Khosh Oil Reservoir
- 2- Tracer Test for Reservoir Characterization in Sarajeh Gas Storage Field
- 3- Gas condensate Behavior and Well Testing in gas Condensate Reservoirs (South-Pars Field)
- 4- Gas Reservoirs Behavior at and above 5000 psi

AWARDS:

- 1 - Chemical Engineering Year Book Award, Tehran, 1994.
- 2- Best Paper Award, 8th Congress of Chemical Engineering. Mehr 1382
- 3- Best Paper Award, 9th Iranian Chemical Engineering Congress November 2004.
- 4- Chemical Engineering Year Book Award, Tehran, 2008