
Prof. Sami Hassan Ali

1. Name and Contact Information

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2. Education

Degree	Field	Institution	Year
Ph. D.	Chemical Engineering	University of Pittsburgh	January, 1997
M. Sc.	Chemical Engineering	University of Pittsburgh	August, 1994
B. Sc.	Chemical Engineering	Kuwait University	October, 1991

3. Academic Experience

Institution	Designation	Year/period
Kuwait University	Professor	June 2011 – Present
Kuwait University	Associate Professor	June 2005 – May 2011
Kuwait University	Assistant Professor	January 1997 – May 2005

4. Teaching

Institution	Courses
Kuwait University	Advanced Natural Gas Processing - Advanced Reactor Design Plant Design - Gas Sweetening - Air Pollution Mass Transfer Operations - Kinetic and Reaction Engineering Numerical Methods - Introduction to Environmental Engineering Fluid Mechanics Laboratory - Fluid Mechanics - Physical Chemistry

5. Non-Academic Experience

Organization	Designation	Year
Chemical Engineering Department, Kuwait University	Chairman of Chemical Engineering Department	2007 – 2012
Chemical Engineering Department, Kuwait University	Coordinator for Promotion Committee	2011 -2012
Chemical Engineering Department, Kuwait University	Coordinator for Research, Sabbatical and Scientific Missions Committee	2022 – 2024 2016 - 2017

Chemical Engineering Department, Kuwait University	Coordinator for Equipment and Laboratories Committee	2015 – 2019 2007 – 2012
Chemical Engineering Department, Kuwait University	Coordinator for Computers and Software Committee	2015 – 2016
Chemical Engineering Department, Kuwait University	Coordinator for Annual Report Committee	2014 – 2015
Chemical Engineering Department, Kuwait University	Coordinator for Appointment and Contracting Committee	2007 – 2012
Chemical Engineering Department, Kuwait University	Coordinator for Scholarship Committee	2007 – 2012
Chemical Engineering Department, Kuwait University	Coordinator for Budget Committee	2007 – 2012

6. Membership in Professional Organization

- Member of AIChE (American Institute of Chemical Engineers).
- Member of Teaching Faculty Corporation in Kuwait University.
- Member of ChESS (Chemical Engineering Student Society) in Kuwait University

7. Honors and Awards (most Recent)

- Winner of Kuwait Finance Bank Award in the Area of Environmental Sustainability as a First Prize Winner within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: "Green Fuel: Production of High Quality Diesel Fuel from Plastic Waste (High-Density Polyethylene)", Spring 2022/2023.
- Winner of KFAS Award as a First Prize Winner within the Level of Chemical Engineering Department, as Supervisor, for Plant Design Course: "Biogas Amines: Production of Methylamines (Mainly Dimethylamine, in addition to Monomethylamine and Trimethylamine) Using Methane from Landfills as a Source for Methanol", Spring 2022/2023.
- Winner of Kuwait Society of Engineers in the Area of Building and Infrastructure and Industry as a Second Prize Winner within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: "Tyre Energy: Production of Diesel from Waste Tyres (Styrene Butadiene Rubber (SBR)), Spring 2022/2023.
- Winner of Kuwait Finance Bank Award in the Area of Environmental Sustainability as First Prize Winner within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: "Production of Ecological Refrigerant ECO FREEZE Composed of CO₂ and Iso-Butane", Fall 2022/2023.
- Winner of Kuwait Airways Award in the Area of Nations Priority as Second Prize Winner within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: "Production of Maleic Anhydride from the Oxidation of n-Butane from LPG", Fall 2022/2023.

- Winner of KFAS Award as Third Prize Winner within the Level of Chemical Engineering Department, as Supervisor, for Plant Design Course: “Clean to Green: Production of Acetic Acid from Sewage Sludge and Gases from Landfills”, Fall 2022/2023.
- Winner of Limak Award as Second Prize Winner within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: “Production of Oxy-Formulated-Gasoline from Methane and Oxygen and using Methyl Tertiary Butyl Ether (MTBE) and Ethanol as Fuel Additives”, Fall 2019/2020.
- Winner of KNPC Award within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: “Production of Tertiary Amyl Methyl Ether (TAME) from Cracked C5 Cut and Methanol”, Fall 2019/2020.
- Winner of KNPC Award within the Level of College of Engineering and Petroleum of Kuwait University, as Supervisor, for Plant Design Course: “Production of Acrylic Acid from Renewable Carbon Source (Corn)”, Spring 2018/2019.
- Winner, for the Best Project in Chemical engineering, as Supervisor, for Plant Design Course: “Production of Maleic Anhydride from the Oxidation of n-Butane”, Fall 2018/2019.
- Winner, for the Best Project in Chemical engineering, as Supervisor, for Plant Design Course: “Production of 1, 3 Butadiene from Propylene”, Fall Semester 2017/2018.

8. Service Activities (within and outside of the Institution) (most Recent)

- Moderator for the Symposium of Chemical Engineering Department:
April 2024, November 2023, April 2023, November 2022, May 2022, December 2021, May 2021, February 2021, July 2020, November 2019, April 2019 & December 2018
- Referee for Journals, Scientific Reports and Conferences:
Industrial & Engineering Chemistry Research
International Journal of Chemical Kinetics
Separation and Purification Technology
Canadian Journal of Chemical Engineering
Kuwait Foundation for the Advancement of Sciences
Catalysis Conference in GCC in Kuwait
Reports from Research Administration of Kuwait University
Journal of Engineering & Applied Science
- Coordinator of the Evaluation Committee for Selecting the Best Project for Plant Design Course, Spring Semester 2015/2016.
- Invited lecturer at Kuwait university for; Ethics Course (Fall 2016/2017)
- Student Advising; for Period from January 1997 till Present Time Covering Different Curriculums for Chemical Engineering Students.

9. Publications and Presentations (2013 to Present)

- Bader H. Albusairi, Abdulwahab S. Almusallam, Sami H. Ali, Sabiha Q. Merchant and Ali Y. Bumajdad: “Production of Esters with Numerous Applications: Kinetics of Dowex 50W Catalysed Transesterification of Methyl Acetate with Three and Four-Carbon Structured Alcohols” Accepted in The Canadian Journal of Chemical Engineering, January 2024.
- Mohammad R. Riazi, Bader H. Al-Busairi and Sami H. Ali, Keynote Presentation: "Heavy Oil Characteristics and Processing", 64th Canadian Chemical Engineering Conference, October 2014.

- Sabiha Q. Merchant, Khaledah A. AL Mohammad, Abeer A. M. Al Bassam and Sami H. Ali "Biofuels and Additives: Comparative Kinetic Study of Amberlite IR-120-Catalyzed Esterification of Ethanol with Acetic, Propionic and Pentanoic Acids to Produce eco-Ethyl-Esters", Fuel, 111, (2013) 140-147.
- Sabiha Q. Merchant and Sami H. Ali "A Peep at Climate Responsive Technologies for India" Chemical Weekly, August 2013.

10. Funded Research (most Recent)

- Co-Investigator for a Project Funded by the Research Administration of Kuwait University under the Title: "Impact of Alcohol Chain Length, Branching and Mixing, Acidic Chain Length of Esters in Addition to Catalyst Type on Transesterification Synthesis". Project Number: EC 03/12. Budget: 30,000 KD. Duration: 2013 - 2016.
- Principal Investigator for a Project Funded by the Research Administration of Kuwait University under the Title: "Impact of Eco-Friendly Solvents on the Kinetics of Carbon Dioxide with Methyl mono ethanolamine (MMEA) as a Superior Amine: Role of Chain Length and Branching of Solvents". Project Number: EC 03/14. Budget: 3,999 KD. Duration: 2014 - 2015.
- Co-Investigator for a Project Funded by the Research Administration of Kuwait University under the Title: "Extraction of Thiophenes from Fuels Using Some New Ionic Liquids". Project Number: EC 01/12. Budget: 56,770 KD. Duration: 2012 - 2014.

11. Supervised M. Sc. Thesis & Projects (most Recent)

- Supervisor for M. Sc. Thesis of Eng. Ahmed Serhan, with the Title: "Kinetics of Esterification and Hydrolysis of Ethyl Acetate and n-Propyl Acetate using Dowex 50Wx8-400", November 2017.
- Supervisor for M. Sc. Project of Eng. Hind Al-Bashara with the Title: "Investigating the Effect of Temperature, Catalyst Loading and Reactants Ratio for the Esterification of Ethyl Acetate: Experimental Versus Statistical Techniques". December 2018.
- Supervisor for M. Sc. Project of Eng. Mohammed Al-Rasheedi with the Title: "Investigating the impact of Dispersion of Pollutants Originated from Medical Waste Incinerators in Kuwait", May 2018.
- Supervisor for M. Sc. Project of Eng. Fatma Saleh with the Title: "Exploring the Effects of Reaction Parameters on the Synthesis of Ethyl Acetate Using Macro Reticular Resin (Amberlyst 16)", January 2018.
- Supervisor for M. Sc. Project of Eng. Lina Shehada with the Title: "Kinetics of Catalytic Esterification of Acetic Acid and Alcohols with Different Chemical Structures over Strong Acidic Ion Exchange Resin Dowex 50Wx8-400", May 2017.

12. Conference Organization:

- Coordinator of the Scientific Committee for the Catalysis Conference in GCC in Kuwait.
- Member of the Organization Committee for the Catalysis Conference in GCC in Kuwait.
- Co-Editor of Book of Abstracts for the Proceedings of Catalysis Conference in GCC in Kuwait.

13. Teaching the Following Short Courses:

- Safety and Quality in Laboratories (ISO 17025)

- Air Pollution, Measurement, Assessment and Control
- Safety in Laboratories