

1. **NAME:** Mamdouh T. Ghannam

2. **ACADEMIC RANK:** Professor

3. **DEGREES**

BSc in ChE	Cairo University, Egypt	1981
MSc in ChE	Cairo University, Egypt	1985
PhD in ChE	Univ. of Saskatchewan, Canada	1991

4. **NUMBER OF YEARS OF SERVICE ON THIS FACULTY:** Since 1998

Professor	2007 - Date
Associate Professor	2001 - 2006
Assistant Professor	1998 - 2001

5. **RELATED EXPERIENCE:**

Institution	Position	Date
Concordia Univ, Canada	Adjunct Prof	Aug 2006 - Date
Univ. of Saskatchewan, Canada	Lecturer	1997 - 1998
Univ. of Saskatchewan, Canada	Research Eng.	1993 – 1997
Cairo University, Egypt	Assistant Prof.	1992 - 1993
Univ. of Saskatchewan, Canada	Graduate St / Teaching Ass	1986 – 1991

6. **PRINCIPAL PUBLICATIONS OF THE LAST FIVE YEARS:**

JOURNAL PUBLICATIONS:

Mamdouh T. Ghannam, Basim Abu-Jdayil, and Nabil Esmail, “Experimental Investigation of Crude Oil-Xanthan Emulsions Flow Behavior”, Journal of Petroleum Science Research Vol. 3, No. 1. (2014).

Abdulrazag Y. Zekri, Omar Chaalal and **Mamdouh T. Ghannam**, “Cleanup of an Offshore Emulsion Spill, an Experimental Approach”, Energy Sources, Part A 36, 121-130 (2014).

Mamdouh T. Ghannam, Mohamed Y. E. Selim, "Rheological Properties of Water-in-Diesel Fuel Emulsions", **In Press** International Journal of Ambient Energy (2014).

Basim Abu-Jdayil, M. Nasser, and **Mamdouh T. Ghannam**, “Structure Breakdown of Stirred Yoghurt in a Circular Pipe as Affected by Casein and Fat Content” **In Press** Food Science and Technology Research Journal (2014).

Mohamed Y. E. Selim, **Mamdouh Ghannam**, Saud Aldajah, and H. E. Saleh, "Effect of Temperature and Mixing on Density and Viscosity of Jojoba-Diesel Fuels", **In Press** Energy Sources, Part A (2014).

Basim Abu-Jdayil and **Mamdouh T. Ghannam**, “The Modification of Rheological Properties of Sodium Bentonite–Water Dispersions with Low Viscosity CMC Polymer Effect”, **In Press** Energy Sources, Part A (2014).

Mamdouh T. Ghannam, Basim Abu-Jdayil, and Nabil Esmail, “Flow Behavior Comparison of Xanthan and Alcoflood Polymers Aqueous Solutions”, American Journal of Oil and Chemical Technologies Vol. 1, No. 2. (2013).

Hazim H. Al-Attar, Mohamed Y. Mahmoud, Abdulrazag Y. Zekri, Reyadh Almehaideb and **Mamdouh T. Ghannam**, "Low Salinity Flooding in a Selected Carbonate

- Reservoir: Experimental Approach”, Journal of Petroleum Exploration and Production Technology (2013).
- Eisa AlMatroushi and **Mamdouh T. Ghannam**, “Buoyancy Driven Motion of Crude Oil Droplet within Aqueous Solutions”, International Journal of Engineering & Technology 2 (3), 12-18 (2012).
- Mamdouh T. Ghannam**, Shadi W. Hasan, Basim Abu-Jdayil, and Nabil Esmail, “Rheological Properties of Heavy & Light Crude Oil Mixtures for Improving Flowability”, Journal of Petroleum Science and Engineering 81, 122-128 (2012).
- Mamdouh T. Ghannam**, “Viscoelastic Behavior of Crude Oil–Polymer Emulsions”, Asia-Pacific Journal of Chemical Engineering 6, 172-180 (2011).
- Mamdouh T. Ghannam** and M. N. Esmail, “Storage and Loss Moduli of Alcoflood Polymers Used in Enhanced Oil Recovery Process”, Journal of Chemical Engineering of Japan 43 (2), 115-125 (2010).
- Shadi Hasan, **Mamdouh T. Ghannam** and M. N. Esmail, “Heavy Crude Oil Viscosity Reduction and Rheology for Pipeline Transportation”, Fuel 89, 1095-1100 (2010).
- Mohamed Y. E. Selim and **Mamdouh T. Ghannam**, “Combustion Study of Stabilized Water-in-Diesel Fuel Emulsion”, Energy Sources Journal 32, 256-274 (2010).
- Mamdouh T. Ghannam**, “Investigation of Thixotropy Behavior of Crude Oil-Polyacrylamide Emulsions”, Journal of Applied Polymer Science 112, 867-875 (2009).
- Mamdouh T. Ghannam**, “Transient Flow Behavior of Crude Oil-Alcoflood Polymer Emulsions”, Industrial & Engineering Chemistry Research Journal 48, 3222-3227 (2009).
- Mamdouh T. Ghannam** and Mohamed Y. E. Selim, “Stability Behavior of Water-in-Diesel Fuel Emulsion”, Petroleum Science and Technology 27, 396-411 (2009).
- Mamdouh T. Ghannam**, “Experimental Investigation of Dynamic Interfacial Tension of Crude Oil – Different Aqueous Solutions”, Journal of Chemical Engineering of Japan 41 (2), 121 – 129 (2008).
- Mohamed Y. E. Selim and **Mamdouh T. Ghannam** and, “Performance and Engine Roughness of a Diesel Engine Running on Stabilized Water Diesel Emulsion”, SAE 2007-24-0132 (2007).
- Mamdouh T. Ghannam**, “Integration of Teaching and Research with Community Service for Engineering Programs”, European Journal of Engineering Education 32 (2) 227 – 235 (2007).
- Mamdouh T. Ghannam**, “The Role of Industrial Training in Chemical Engineering Education”, Chemical Engineering Education 40 (3), 189 - 194 (2006).
- Mamdouh T. Ghannam** and M. N. Esmail, “Flow Enhancement of Medium Viscosity Crude Oil”, Petroleum Science and Technology 24, 985 - 999 (2006).
- Mamdouh T. Ghannam** and M. N. Esmail, “Yield Stress Behavior for Crude Oil – Polymer Emulsions”, Journal of Petroleum Science and Engineering 47, 105 - 11 (2005).

- Mamdouh T. Ghannam**, "Water-in-Crude Oil Emulsion Stability Investigation", Petroleum Science and Technology 23, 649 - 667 (2005).
- Mamdouh T. Ghannam**, "Creep-Recovery Experimental Investigation of Crude Oil-Polymer Emulsions" Journal of Applied Polymer Science 92, 226-237 (2004).
- N. A. Darwish, N. Hilal **M. T. Ghannam**, and A. Dowaidar, "Experimental Investigation on the Removal of Toner Particles from Laser-Printed Office Waste Papers", International Journal of Green Energy 1 (1), 115-122 (2004).
- Shedid A. Shedid and **Mamdouh T. Ghannam**, "Factors Affecting Contact Angle Measurement of Reservoir Rocks" Journal of Petroleum Science and Engineering 44, 193-203 (2004).
- Reyadh A. Almehaideb, **Mamdouh T. Ghannam**, and Abdulrazag Y. Zekri, "Experimental Investigation of Contact Angles of Crude Oil-Microbial Solution on Carbonate Rocks", Petroleum Science & Technology 22, 423-438 (2004).
- Naif A. Darwish, **Mamdouh T. Ghannam**, Ali Dowaidar, and Nidal Hilal, "De-inking of Laser-printed Office Waste Papers", Research Journal of Chemistry and Environment 7 (3), 64-68 (2003).
- Mamdouh T. Ghannam**, "Spreading Behavior of Crude Oil over Limestone Substrate", Journal of Colloid and Interface Science 262, 435-441 (2003).
- Mamdouh T. Ghannam** and Omar Chaalal, "Oil Spill Cleanup Using Vacuum Technique", Fuel 82, 789-797 (2003).
- Mamdouh T. Ghannam**, "Emulsion Flow Behavior of Crude Oil-Alcoflood Polymers", Journal of Chemical Engineering of Japan 36, 35-44 (2003).
- Mamdouh T. Ghannam**, "Effect of Binders on the Flow Behavior of a Paper Coating Suspension over a Wide Range of Shear Rates", Industrial Engineering & Chemistry Research Journal 41, 2399 – 2404 (2002).
- Mamdouh T. Ghannam** and M. N. Esmail, "Flow Behavior of Enhanced Oil Recovery Alcoflood Polymers", Journal of Applied Polymer Science 85, 2896-2904 (2002).
- Mamdouh T. Ghannam**, "Wetting Behavior of Aqueous Solutions of Polyacrylamide over Polyethylene Substrate", Journal Chemical Engineering Data 47, 274 – 277 (2002).
- Nidal Hilal, **Mamdouh T. Ghannam**, M. Anabtawi, "Effect of Bed Diameter, Distributor and Inserts on Minimum Fluidization Velocity", Journal of Chemical Engineering & Technology 24, 161-165 (2001).
- Mamdouh T. Ghannam** and M. N. Esmail, "Measurements of Coating Suspension Rheology Over a Wide Range of Shear Rate Using Capillary Viscometer", Journal of Chemical Engineering of Japan 33, 407-413 (2000).
- Mamdouh Ghannam**, "Interfacial Properties of Polyacrylamide Solutions", Journal of Applied Polymer Science 74, 219-227 (1999).
- Mamdouh Ghannam**, "Rheological Properties of Aqueous Polyacrylamide /NaCl Solutions", Journal of Applied Polymer Science 72, 1905-1912(1999).
- Mamdouh Ghannam** and M. N. Esmail, "Rheological Properties of Aqueous Polyacrylamide Solutions", Journal of Applied Polymer Science 69, 1587-1597(1998).

- Mamdouh Ghannam** and M. N. Esmail, "The Rheological Properties of Polydimethylsiloxane", Industrial Engineering Chemistry Research Journal 37, 1335-1340 (1998).
- Mamdouh Ghannam** and M. N. Esmail, "Experimental Study on Wetting of Fibers with Non-Newtonian Liquids", AIChE 43, 1579-1589 (1997).
- M. T. Ghannam** and M. N. Esmail, "The Rheological Properties of Carboxymethyl Cellulose ", Journal of Applied Polymer Science 64, 289-301(1997).
- M. T. Ghannam** and M. N. Esmail, "The Effect of Substrate Geometry on Dynamic Contact Angles in Surface Wetting", Chemical Engineering Communications, 158, 43-57 (1997).
- M. T. Ghannam** and M. N. Esmail, "Experimental Study of the Wetting of Fiber", AIChE J. 39, 361-365 (1993).
- M. T. Ghannam** and M. N. Esmail, "The Effect of Pre-Wetting on Dynamic Contact Angles", Canadian Journal of Chemical Engineering. 70, 408-412 (1992).
- M. T. Ghannam** and M. N. Esmail, "Effect of Substrate Entry Angle on Air Entrainment in Liquid Coating", AIChE J. 36, 1283-1286 (1990).
- M. N. Esmail and **M. T. Ghannam**, "Air Entrainment and Dynamic Contact Angles in Hydrodynamic of Liquid Coating", Canadian Journal of Chemical Engineering. 68, 197-203 (1990).

CONFERENCE PUBLICATIONS/PRESENTATIONS:

- Mohamed O. Hamdan, Mohamed Y. E. Selim, Salah Addin Al Omari, Emad Elnajjar, and **Mamdouh Ghannam**, "Effect of Stabilized Water-Diesel Emulsions on External Combustion Characteristics", ASME 2013 Summer Heat Transfer Conference, HT2013, Minneapolis MN, USA, July 14-19 (2013).
- Mamdouh T. Ghannam**, A Zekri, H Al-Attar, M Mahmoud, and R Almehaideb, "The Impact of LoSal on Oil Recovery from a Selected Carbonate Reservoir in Abu Dhabi-An Experimental Approach", 18th Middle East Oil & Gas Show and Conference (MEOS) (2013).
- Eisa AlMatroushi and **Mamdouh T. Ghannam**, "Flow Behavior of Crude Oil Droplet Moving within Aqueous Solutions", Interdisciplinary Transport Phenomena VII, Dresden, Germany, September 19-23 (2011).

7. Membership of Scientific and Professional Societies

- Member of the Chemical Institute of Canada.
- Member of the Canadian Society for Chemical Engineering.
- Peer Reviewer for several International Journals such as Journal of Applied, Polymer Science, Fuel, Industrial & Engineering Chemistry Research, and Chemical Engineering Communication.
- Reviewer for the Institution of Chemical Engineers.

8. HONORS AND AWARDS:

- Recipient of the College Teaching Excellence Award (2008).
- Recipient of the merit Award (2007), UAE University.

- Member of the editorial board Journal of Energy Engineering for the ASCE (American Society of Civil Engineers).
- Listed on the 2009 edition of Who's Who in the World.
- Listed in the 2006-2007 edition of Who's Who in Science & Engineering.