CURRICLUM VITA

## PERSONAL DATA

Name: Fatma El Zahraa Hanafy Ashour

Present Position: Head of the Chemical Engineering Department

Affiliation: Department of Chemical Engineering, Faculty of Engineering, Cairo University

Field of Specialization: Organic Technology and Petroleum Processing

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Date of Birth: 24 February 1958

Nationality: Egyptian

## ACADEMIC QUALIFICATIONS

1. B. Sc. in Chemical Engineering
2. M.Sc. in Chemical Engineering

Thesis Title: “Studies on Reuse of Some Common Wastes” (Used Lubricating Oils)

1. Ph.D. in Chemical Engineering

Thesis Title: “Effect of Some Inorganic Additives on the Performance of Concrete”

#### PROFESSIONAL EXPERIENCE

**2007 to date**

Professor of Chemical Engineering (Petroleum Processing and Petrochemicals), Chemical Engineering Department, Faculty of Engineering, Cairo University

**2001 - 2007**

Associate Professor of Chemical Engineering (Petroleum Processing and Petrochemicals), Chemical Engineering Department, Faculty of Engineering, Cairo University

**1994- 2001**

Lecturer, Chemical Engineering, Chemical Engineering Department, Faculty of Engineering, Cairo University, Egypt

**1988-1994**

Assistant Lecturer, Chemical Engineering Department, Faculty of Engineering, Cairo University, Egypt

**1982- 1988**

Teaching Assistant, Chemical Engineering Department, Faculty of Engineering, Cairo University, Egypt

##### M.Sc. and Ph.D. SUPERVISED

* More than 15 awarded M.Sc. and 2 PhDs.
* 5 M.Sc. in the final stages as well as [2 PhDs]

##### TEACHING EXPERIENCE

1. Undergraduate Courses

* Introduction to Petroleum Industry
* Petroleum Standards
* Petroleum Field Operations
* General Chemistry
* Unit Operations
* Petroleum Refining and Processing
* Physical Chemistry and Thermodynamics
* Inorganic Chemistry for Biomedical Students

1. Postgraduate Courses

* Modern Refining Methods
* Environmental and Natural Risk Assessment
* Petrochemicals from Natural Gas
* Potentials of Biomass
* Biofuels
* Green Petrochemical & Refining Industries

1. B.Sc. PROJECTS SUPERVISED

* Reclamation of Used Lube Oils using different solvents, 1998
* Agriculture Waste Derived Fuel using Elephant Grass as Energy Crop, 2004
* Oil Recovery from Petroleum Sludge, 2005.
* Recycling of Used Lube Oils using different methods of treatment, 2005.
* Manufacture of Grease from used Oils, 2006.
* Manufacture of Ethanol from rice husk, 2007.
* Manufacture of Furfural from Agricultural wastes, 2008.
* Production of Biodiesel from waste cooking oil and algae (2008 to Date)
* Production of Bioethanol from bagasse, 2010

##### Patents and Publications

* Abdelaziz, O.Y., Gadalla, M.A. and **Ashour, F.H.**, An Optimum Energy Integrated Process Design for a Biomethanol Plant in Egypt, The 64th Canadian Chemical Engineering Conference (CSChE), Niagara Falls, Ontario, Canada, October 19 – 22, 2014.
* Abdelaziz, O.Y., Gadalla, M.A. and **Ashour, F.H.**, Simulation of Biomethanol Production from Green Syngas through Sustainable Process Design, The 4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Vienna, Austria, August 28 – 30, 2014.
* F. Sorour, M. Gadalla, S. Rageb, N. Abdelmoneim and **F.H. Ashour**, Multifactor Overall Performance Measurements model (MFOPMM) As Effectual Performance Measures In Petroleum Industry”, Journal of International Academic Research for Multidisciplinary (JIARM), vol.2, issue 2, March 2014.
* Mohammed A. Khatita, Tamer S. Ahmed, **Fatma H. Ashour**, Ibrahim M. Ismail, Power generation using waste heat recovery by organic Rankine cycle in oil and gas sector in Egypt: A case study, Energy, Volume 64, 1 January 2014, Pages 462–472
* M. Gadalla, D. Kamel, **F.H. Ashour** and H. Nour El Din, A New Optimization Based Retrofit Approach for Revamping an Egyptian Crude Oil Distillation Unit, Energy Procedia, vol.36, 454 – 46, 2013
* D. Kamel, M. Gadalla and **F.H. Ashour**, New Retrofit Approach for Optimization and Modification for a Crude Oil Distillation System, Chemical Engineering Transactions, vol.35, 2013
* S.A. Sherif, M.A. Sadek, **F.H. Ashour** and M. Bassyouni, Effects of Surface Treatment of Ground Rice Husk on the Polyurethane Based on Castor Oil, Polymer and Polymer Composites, vol. 9, No.8, 2009
* **F.H. Ashour**, S.M. El Marsafy and H. Nour El Din, "Maximum Utilization Of Used Oils For Cleaner Environment", The Twenty Second International Conference on Solid Waste Technology and Management, March 2007, Philadelphia, USA.
* A.M.M. Saleh, **F.H. Ashour** and S.M. El Sabagh, Solid Waste Management during the Crude Oil Production, Under Publication in Petroleum Science and Technology, USA, accepted on January 31 2007.
* **F.H. Ashour**, Furfural Production From Agricultural Residues, Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, vol. 53, No.5, pp. 689-697, October 2006, Egypt.

##### PROFESSIONAL ACTIVITIES

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* Member of the Egyptian Engineers Syndicate.
* Member of the board of the Association of the French-speaking Egyptian Engineers “L’Association des Ingénieurs Francophones d’Egypte”.
* Member of the College of Experts of the former Mediterranean Office of Youth MOY.
* Member of the Research Council for Petroleum & Mineral Wealth

(Petroleum Committee)- The Egyptian Academy of Scientific Research and Technology (April 2006 to 2011).

* Reviewer for national projects, at the Scientific and Technological Development Fund (STDF) in Egypt since 2008.
* Technical Assessor for the Egyptian Accreditation Council (EGAC) for laboratories accreditation.
* Participating in the “Energy Conservation" Project between the Chemical Engineering Department, in Cairo University and its counterpart at Rovira Virgilli I University, in Spain, since March 2009.

##### AWARDS

##### Area of Research

* Petroleum Refining
* Biorefineries
* Bioenergy
* Waste Management