CURRICLUM VITA

## PERSONAL DATA

Name: **Salwa Raafat Mostafa Ali**

Present Position: Professor

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

Field of Specialization: Reactor Design

Telephone: Work : 35678625

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E-Mail: salwa\_raafat@hotmail.com

Date of Birth: 10th of August, 1962

Nationality: Egyptian

## ACADEMIC QUALIFICATIONS

**Ph. D. Chemical Engineering** , 1996.

 **Thesis Title:** “ Dynamic Behavior of Fixed Bed Catalytic Reactor With Consecutive Exothermic Reaction A B C ” , Cairo University, Egypt.

\*\* **M. Sc. Chemical Engineering**, 1992.

**Thesis Title:** “ Modeling and Simulation of the Sulfur Dioxide Oxidation Industrial Reactor”, Cairo University, Egypt.

\*\* **B.Sc. Chemical Engineering**, 1984.

 Distinction with Honor Degree and Excellent Project, Faculty of Engineering, Cairo University.

1. B. Sc. in **Chemical Engineering**, 1984.
2. M.Sc. in **Chemical Engineering**, 1992.

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Thesis Title: “ Modeling and Simulation of the Sulfur Dioxide Oxidation Industrial Reactor”, Cairo University, Egypt.

3) Ph.D. in. **Chemical Engineering** , 1996.

Thesis Title: “ Dynamic Behavior of Fixed Bed Catalytic Reactor With Consecutive Exothermic Reaction A 🡪 B 🡪 C ” , Cairo University, Egypt.

#### PROFESSIONAL EXPERIENCE

Name of Employer Duration Position Held

* Cairo Univ.-Faculty of Eng.-Chem. Eng.Dep. - 17/10/1984 - Teaching Assistant
* Cairo Univ.-Faculty of Eng.-Chem. Eng.Dep. - 13/12/1993- Assistant Lecturer
* Cairo Univ.-Faculty of Eng.-Chem. Eng.Dep.- 31/7/1996-Assistant Professor
* Cairo Univ.-Faculty of Eng.-Chem. Eng.Dep.- 31/10/2001-Associate Professor
* Cairo Univ.-Faculty of Eng.-Chem. Eng.Dep.- 28/11/2006- up to the present- Professor.

##### M.Sc and PH.D SUPERVISEDAwarded Theses

1. “Prediction of Power Requirements in Mixing of Ceramic Pastes”

 Ph. D. in Chemical Engineering-August, 2009

2) “ Study of the Non-Newtonian Properties of Fruit Concentrates”

 Ph. D. in Chemical Engineering-May, 2005

3) “Production of Syngenite as a Slow Release Fertilizer”

 M. Sc. in Chemical Engineering-May, 2004

4) “Modeling and Simulation of Fixed Bed Adsorber for the Removal of Phenol from Industrial Experimental Investigation”

 Ph. D. in Chemical Engineering- June, 2003

**Undergoing Thesis Supervision**

Ahmed Ali , M.Sc.

##### TEACHING EXPERIENCE

**1) Undergraduate Courses**

1. **“General Chemistry”.** Preparatory Year Engineering Students.
2. **a-“Momentum Transfer & Fluid Mechanics”.** 2nd Year Chemical Engineering Students.

**b-“Fundamentals of Chemical Engineering”.** 2nd Year Chemical Engineering Students.

1. **a-“Unit Operations”.** 3rd Year Chemical Engineering Students

**b- “ Heat Transfer”** . 3rd Year Chemical Engineering Students

1. **a-“ Reactor Design”.** 4th Year Chemical Engineering Students.

 **b-“Chemical Engineering Laboratory”.** 4thYear Chemical Engineering Students.

**2) Postgraduate Courses**

**1. “Chemical Reaction Engineering”.** Master of Science Course.

**2. “Advanced Catalysis & Reactor Design”.** Postgraduate Diploma & Master of Science Course.

**3. “Fluid Mechanics”.** Postgraduate Diploma course.

**3. B.Sc. Projects Supervised**

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| --- | --- | --- | --- | --- |
| 1992-Present | Cairo University-Faculty of Engineering- Chemical Engineering Department |  Graduation Projects | Undergraduate University students | Supervisor and Examiner |

**Patents and Publications**

1. **Optimum Operating Conditions Of Plate Heat Exchanger In Soybean Milk Process**

M. A. Sorour, S. R. Mostafa, E.S. Abdou

**Journal of Industrial Engineering, 2013**

1. **A Case Study of Orange Juice Concentration by Recompression Evaporation Techniques**

M.A. Sorour , S.R. Mostafa, S.M. Bo Samri

**Journal of Food Process Engineering, Vol. 35, Issue 4, August 2012**

1. **Prediction of Power requirement in Mixing of Clay Based Pastes**

Sh.K. Amin, K.M. El-Khatib, S.R. Mostafa, M.F. Abadir

**Industrial Ceramics, Vol. 31, March 2011**

1. **Effects of Impeller Geometry on Mixing of Carrot Concentrate**

MostafaS.R. and SorourM.A.

**The Transactions of the Egyptian Society of Chemical Engineers, TESCE, Vol. 32, No. 1, January 2006**

1. **Effect of Temperature and Concentration on the Rheological Properties of FIG Jam Puree**

 SorourM.A., MostafaS.R., AbadirM. F. and Habash L.A.

 **The 3rd International Conference of Chemical and Environmental Engineering (CEE), Military Technical College (MTC), May 16 – 18, 2006**

1. Reuse of Treated Industrial Oil and Soap Wastewater in Agricultural Purposes

#  S.R. Mostafa , M.M. El Shafei

 **Civil Engineering Research Magazine, CERM, Al-Azhar University, Vol. (28), No. (2) April, 2006**

1. **Modeling of Rheological Behavior of Egyptian Cane Molasses**

 S. R. Mostafa

 **The Transactions of the Egyptian Society of Chemical Engineers, TESCE, Vol. 31, No. 3, July 2005**

1. **Solid Waste Management for Dry Food Industry**

 **Sludge Stabilization by Anaerobic Digestion**

 S.R.Mostafa and H.A.Sibak

 **Cairo University Journal for Environmental Sciences**

 **Vol. 3, No. 1, March 2005**

1. **Utilization of the Phosphogypsum Waste in the Production of PK Fertilizer: "Study of Kinetic Parameters of the Process"**

 S.T. EL – Sheltawy\*, A.F.Shaaban\*\*, G.E.EI-Dewany\*\*, S.R.Mostafa\*, H.A. Sibak\*, M.S. Mohamed\*\*

 **Cairo University Journal for Environmental Sciences**

 **Vol. 2 No. 1, December 2004**

1. Handling of Powdered Polyurethane / Polyol Slurries

 S. R. Mostafa

 **Journal of Engineering and Applied Science, Vol. 51, No. 1, February 2004**

1. **Time - Dependent Flow Behaviour of Fig Jam Puree**

 M.A. Soroura , S.R. Mostafab , M.F. Abadirb , L.A. Habasha

 **The Transactions of the Egyptian Society of Chemical Engineers, TESCE, Vol. 30, No. 1, January 2004**

1. **Utilization of Powdered Polyurethane Foam Scrap as Filler in Producing Polyurethane Foam: Thermal Properties** S.R.Mostafa

 **The 18th International Conference on Solid Waste Technology and Management. Philadelphia, PA, USA March 23-26, 2003**

1. Recycling of Finely Ground Polyurethane in Manufacture of Rigid Foam: Mechanical and Physical Properties

 S.R.Mostafa, S.T. El-Sheltawy

 **The 18th International Conference on Solid Waste Technology and Management. Philadelphia, PA, USA March 23-26, 2003**

# Flow properties of digested waste water sludge

#  Part I : Effect of solid content

###  M. M. El Shafei , S.R.Mostafa , M.F.Abadir

 **The 18th International Conference on Solid Waste Technology and Management. Philadelphia, PA, USA March 23-26, 2003**

1. **“Utilization of Vinasse and By-Pass Kiln Dust to Produce Fertilizer.”**

 M.M.K. Fouad, S.R. Mostafa, N.M.Abdel-Moneim and S.T. El-Sheltawy.

 **Al-Azhar University Engineering Journal ( AUEJ). July 2001.**

1. “Comparative Cost Simulations of UF/RO & RO Schemes for Dairy Wastewater Treatment.”

 S.R. Mostafa

**The Transactions of the Egyptian Society of Chemical Engineers, TESCE, Jan. 2001.**

1. **“A Kinetic Study of a Slow Release Fertilizer from Rice Husks and Dolomitic Limestone .”**

 S.R. Mostafa, H.A. Sibak and S.T. El-Sheltawy.

 **16th International Conference on Solid Waste Technology and Management, Philadelphia, PA, U.S.A., Session 9(78-84), Dec. 2000.**

1. **“Effect of Dolomitic Limestone- Rice Husks Ratio on the Diffusivity and Index of Activity of Slow Release Potassium Silicate Fertilizer .”**

 S.R. Mostafa and H.A. Sibak .

 **16th International Conference on Solid Waste Technology and Management, Philadelphia, PA, U.S.A., Session 9(65-72), Dec. 2000.**

1. **“Reusing and Upgrading of Wasted PET Plastic Bottles .”**

 S.R. Mostafa, N.M. Al-Mansi .

 **Journal of Engineering and Applied Science.47 (4), 725 – 737, Aug. 2000.**

1. **“ Utilization of Electroflotation in Remediation of Oily Wastewater .”**

 M.Y. Ibrahim, S.R. Mostafa, M.F.M. Fahmy and A.I. Hafez .

 **The Transactions of the Egyptian Society of Chemical Engineers, TESCE, July 2000**

 Also, published in :**“Separation Science and Technology.”, March, 2001, U.S.A.**

1. **“Energy Conservation in Distillation Columns with Multiple Effects for the System *i-pentane/ n-pentane* .”**

 S.M. Salama, S.R. Mostafa, M.F.M. Fahmy and M.Abdel-Aliem .

 **Journal of Engineering and Applied Science.46 (1), 177 – 189, Feb. 1999.**

###### PROFESSIONAL ACTIVITIES

Editor of “ Cairo University Journal for Environmental Sciences

**Area of Research:**

**1-** Modeling and Simulation

2- Rheological studies and Fluid Mechanics.

3- Reactor Design.

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