

CURRICULUM VITAE



Personal Data:

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Date & Place of Birth : September 17, 1956 - Alexandria

Nationality : Egyptian

Marital Status : Married

Languages : Arabic, English and French fluently

Degrees :

Ph.D. Washington University, 1986
M.Sc. Washington University, 1985
M.Sc. Alexandria University, 1982
B.Sc. (Honours) Alexandria University, 1979

Academic Ranking :

From	To	Institution	Position
July 1998	Present	Alexandria University	Professor
July 1996	July 1998	Alexandria University	Associate Professor
Jan 92	July 1996	Qatar University	Associate Professor
Sep 90	Jan 92	Qatar University	Assistant Professor
1987	Sep 90	Alexandria University	Assistant Professor
1982	1986	Alexandria University	Assistant Lecturer
1979	1982	Alexandria University	Demonstrator

Responsibilities at Alexandria University :

From	To	Location	Position
Aug. 2008	Present	Alexandria University	Vice-President for Community Service & Environment Development
Sep. 2006	July 2008	Faculty of Engineering	Dean
Aug. 2003	July 2006	Faculty of Engineering	Vice Dean for Education & Student Affairs
Dec. 1999	Present	ADST	Executive Director
Oct. 1999	Dec. 2009	ADST	Scientific Coordinator
Aug. 1999	May 2007	Community Development Center	Executive Director
Sep. 1997	Jan. 2000	Alexandria Engineering Journal	Executive Editor

Court and Industrial Consultings :

From	To	Firm	Operation
Jan. 1998	March 1998	Alexandria Court	Investigating the failure and the firing of a tobacco container, due to the burning of cellulose compounds
Apr. 1989	Sep. 1989	Egyptian Petrochemicals Co.	Effect of the duration of the warehousing period on the physical and mechanical properties of PVC resins.
Feb. 1988	June 1988	Kafr El Dawar Co. for Fine Spinning	Investigation of the failure of brass tubing used in the condensers of the power plant.

Visiting Appointments/Secondments :

Appointment	From	To	Institution
Visiting Professor	Nov. 1988	Jan. 1989	Qatar University
Visiting Professor	Oct. 1989	Jan. 1990	Qatar University
Secondment	Oct. 1990	June 1996	Qatar University
Visiting Research Fellow		Summer 1994	Washington University
Visiting Professor	Mar. 1997	June 1997	Qatar University

Honors and Awards :

- ◆ Recipient of the Materials Research Laboratory Scholarship Washington University, 1983-1986
- ◆ Recipient of the Washington University Scholarship 1982-1983
- ◆ Recipient of the ITT Scholarship, 1981

- ◆ Recipient of the Distinguished Student Award, Department of Chemical Engineering, Alexandria University, 1979
- ◆ Recipient of the Egyptian Government Award for Distinguished Undergraduate Students, 1979.

Professional Memberships :

- ◆ Member, Society of Plastics Engineers
- ◆ Member, American Chemical Society
- ◆ Member, Syndicate of Engineers, Egypt
- ◆ Member, Arab Society for Materials Science, Egypt

Courses Taught :

Undergraduate Courses

- Analytical Chemistry
- Industrial Process Chemistry
- Technical Report Writing
- Material and Energy Balances
- Instrumental Analysis
- Physical Metallurgy
- Computer Methods in Chemical Engineering
- Unit Operations
- Numerical Analysis
- Process Instrumentation and Control
- Polymer Engineering
- Chemical Engineering Economics
- Corrosion Engineering

Graduate Courses

- Polymer Processing
- Technology of Composite Materials
- Computer-Aided Material and Energy Balances
- Introduction to Composite Materials
- Corrosion Protection and Control
- Modeling and Simulation

Research Areas :

- Structure-Property Relations in Molecular Composites
The basic objective of this work is to provide reliable model(s) to predict the mechanical and transport properties of molecular composites and to investigate the variation of these properties with the microstructure.
- Effect of γ -Irradiation on some properties of polymers
We examine the effect of γ -Irradiation on the mechanical, thermal and transport properties of crystalline and amorphous polymers
- Corrosion Transport and Mechanical Properties of Metal (Metal Oxide)-Reinforced Carbon Electrodes
We are interested in experimentally measuring the corrosion, transport and mechanical properties of reinforced carbon electrodes to provide an experimental data base which will be utilized to verify the applicability of the predictive composite models on the such systems.
- Effect of drag reduction on the corrosion behavior of metals and alloys
The corrosion behavior of various metals/alloys in different environments with the presence of drag reducing agents is investigated. Special emphasis is on the involved mass transfer mechanisms.

❑ Behavior of Polymer Blends

In this work we aim at implementing the molecular composite model to predict the mechanical, thermal expansion and transport properties of engineering polymer blends and to investigate the variation of these properties with the microstructure.

Project Management :

Administrative and Financial Manager: DESALURBAN Project (*Brackish water Desalination for Urbanization of Remote Arid Areas in Egypt*). Financed through the Debt Swap Program, Italian Cooperation – August 2004 to January 2008

Additional Professional Activities :

❖ Active in 'Continuing Education Programs' :

- ◆ Course Instructor in the Short Course on "Principles of Polymer Science and Engineering", Alexandria Petrochemicals Co., Alexandria, August 2000.
- ◆ Course Instructor in the Short Course on "Fundamental of Operating Industrial Chemical Equipment", Faculty of Engineering , Alexandria, October 99 & May2000.
- ◆ Course Instructor in the Short Course on "Heat Treatment Operations", Egyptian Copper Company, Alexandria, March 1999.
- ◆ Course Instructor in the Short Course on "Technical Report Writing", Amreya Oil Refining Company, Alexandria, September 1998.
- ◆ Course Organizer and Instructor in the Short Course on "Introduction to MATLAB for Chemical Engineers", Faculty of Engineering , Alexandria, July – August 1998.
- ◆ Course Organizer and Instructor: "Introduction to Polymers", Alexandria March 1998
- ◆ Course Instructor in the Short Course on "Principles of Processing Operations", Faculty of Engineering - Alexandria, March 1998
- ◆ Course Organizer and Instructor in the Short Course on "Introduction to MATLAB for Chemical Engineers", Faculty of Engineering , Alexandria, August 1996.
- ◆ Speaker in Workshop on "Structure and Defects of Materials", Doha, April 1996
- ◆ Course Co-Organizer: "Pumps and Compressors for the Chemical and Petrochemical Industries", Doha, January 1996.
- ◆ Course Co-Organizer : 'Management of Chemical and Petrochemical Plant Safety', Doha, April 1995
- ◆ Speaker in 2nd Workshop on "Materials Science and its Applications, Doha, April 1995.
- ◆ Course Co-Organizer : 'Field Handling of Natural Gas', Doha, May 1994.
- ◆ Course Co-Organizer and Instructor in 'Chemical Engineering for Non-Chemical Engineers, Doha, November 1993.
- ◆ Course Co-Organizer and Instructor in 'Natural Gas Processing', Doha, April 1993.
- ◆ Instructor in Short Course on 'Corrosion Monitoring and Prevention in Reinforced Concrete Structures', Doha, April 1993.
- ◆ Attended a course at MIT on 'Composite Materials', Boston, July 1992.
- ◆ Course Coordinator and Instructor in the Short Course on 'Cooling Towers and Associated Water Treatment', Doha, April 1992.
- ◆ Instructor in Workshop on 'Corrosion and its Prevention', Doha, April 1992.
- ◆ Speaker in Workshop (2) on 'Polymers and their Importance' Doha, November 1991

- ◆ Offered a course in 'Polymers Technology' for Qatar Petrochemicals Co., Doha, Spring 1991.
- ◆ Course Organizer and Instructor in Short Course on 'Industrial Corrosion: Prevention and Control', Alexandria, March 1990.

❖ Active in " Organizing Conferences and Workshops " :

- Major member in the steering committees of RETBE'98, RETBE'2000, RETBE'02, RETBE'04, RETBE'06 Conferences organized by the Faculty of Engineering – Alexandria University
- Main Co-ordinator for ADST International Conference: " Desalination Technologies and Water Reuse ", May 2005, May 2006, May 2007 and May 2008 Sharm El-Sheikh, Egypt
- Main Co-ordinator: Workshop on "Localization of Desalination Technologies: A Foundation for Sustainable Development", March 25 – 26, 2006; Abu Dhabi – UAE
- General Secretary and Main Co-ordinator for the conference: " Desalination Strategies in South Mediterranean Countries", in conjunction between ADST and EDS, May 2002, Sharm El-Sheikh, Egypt
- Program Co-ordinator for the ADST Second Workshop on "Desalination Technologies: Future Trends and Economics", February 2001 Alexandria.
- Main co-ordinator for the Seminar: "Environmental Protection and Conservation of Natural Resources", Organized by ADST, October 2000, Alexandria University, Alexandria.
- Program Co-ordinator for the Diploma: "Fundamentals of Desalination Technologies", ADST, October 2000, ADST – Alexandria
- Major member in the steering committee of the workshop on "Desalination Technologies" organized by ADST, July 1999, Alexandria – Egypt
- Seminar Co-Organizer for Arab Network for Staff Development: "Technologies in Mathematics Teaching", January 31 - February 1, 1999, Faculty of Engineering, Alexandria University.

Research Publications and Theses Supervision :

Please refer to the attached lists

R.R.Zahran

Dated: December, 2008