

CURRICULIM VITAE



Personal Information:

Name: Yousef Ahmad Mubarak
Date of Birth: 5/9/1966
Place of Birth: Amman
Nationality: Jordanian
Marital Status: Married

Addresses:

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Qualifications:

- **Ph.D.** in Chemical Engineering “Polymer Science”, The Queen’s University of Belfast, 2000.
- **M.Sc.** in Chemical Engineering, The University of Jordan. (84.9%, Excellent rank), 1992.
- **B.Sc.** in Chemical Engineering, Jordan University of Science and Technology. (79.9%, Very good rank and 3rd in my 38 students class), 1989.

Awards:

- ORS Award (Overseas Research Students), academic years 1998/1999 and 1999/2000, UK.
- Arab-British Students Foundation, academic years 1998/1999 and 1999/2000, UK.
- Arab Students Aid International, academic years 1998/1999 - 1999/2000 and 2000/2001, USA.
- The Leach Trust, 2000, UK.

Practical Experiences:

- Currently I am Assistant Prof. at the Chemical Engineering Department at the University of Jordan since January 2002. I teach the following courses:
 - Process Modelling by Statistical Methods
 - Thermodynamics 2
 - Numerical Methods in Chemical Engineering
 - Advanced Numerical Analysis
 - Polymers and Plastics Engineering
 - Engineering Materials Science
 - Fertilizers Technology
 - Strength of Materials and Equipment Design
 - Mathematical Methods
 - Advanced Mathematical Methods for Chemical Engineering
 - General Safety Principles
- Previous experience:

<p>1- Project Engineer 1/08/2000 – 15/02/2002 The Wolfson Centre For Materials Processing Mechanical Engineering Department Brunel University Tel: ++44 1895 203035 Fax:++44 1895 203376</p>	<p>2- Laboratory Demonstrator 1st semesters 97/98, 98/99, and 99/00 School of Chemical Engineering The Queen’s University of Belfast Belfast-UK</p>
<p>3- Lecturer 1/10/1994 - 1/4/1997 Chemical Engineering Department. The University of Jordan Tel.: ++962 6 843555 Ext. 2794. Fax: ++962 6 848558</p>	<p>4- Product Manager 1/1/1993 - 1/10/1994 Al-Ahliyya For Chemical Fertilisers Industry. P.O.Box 671 Tla’a Al-Ali Amman-Jordan Tel: ++962 6 5520095 Fax: ++962 6 5520095</p>
<p>5- Teaching Assistant 1/1/1990 - 1/6/1992 (part time) Chemical Engineering Department The University of Jordan Amman - Jordan Tel.: ++962 6 843555 Ext. 2794. Fax: ++962 6 848558</p>	<p>6- Technical Training Period (8 weeks, 1988) Jordanian Phosphate Mines Company Aqaba-Jordan</p>

Research Activities:

- Investigation into the consequences of methods used to reduce the cost of production of moulded parts by the injection moulding process.
- Improve the efficiency of current processing as a result of effective management of heat transfer and the possibility of reducing part weight by improving material performance.

- Conventional and Pulse cooling technologies.
- Morphology, nucleation and growth rate analysis of polymers.
- Isothermal and non-isothermal crystallization of semi-crystalline polymers.
- Modelling and simulation of non-isothermal crystallization kinetics.
- Effects of pigments, nucleating agents and recycled polymer on morphology and crystallisation of semi-crystalline polymers.
- Mechanical properties of extruded and injection moulded semi-crystalline polymers.
- Effects of pigments, nucleating agents, recycling and orientation on the physical ageing behaviour of polymers.
- I have very high capacity to use the following equipment:
DSC, X-ray, FTIR, scanning electron microscopy, polarised light microscopy, tensile testing.
- Solid, liquid, and suspension fertilizers production an addition to treatment of Jordanian wet process phosphoric acid.
- Production of mono potassium phosphate pure crystals using untreated Jordanian wet process phosphoric acid.
- Production of potassium nitrate pure crystals using Jordanian potassium chloride at moderately low temperature.
- Production of potassium sulphate crystals using Jordanian potassium chloride at moderately low temperature.
- Improvement of wall thickness distribution of PET bottles In Collaboration with Technical Packaging Company through the Faculty for Factory program in its first cycle, 2003.
- Urea Phosphate Production in collaboration with Arab National Co. for Fertilizers Ind. and Seed Production through the Faculty for Factory program in its third cycle, 2005.
- Aluminium Profiles Electro colouring In collaboration with Arab Aluminium Industry Co. Ltd. (ARAL) through the Faculty For Factory program in its fourth cycle, 2006.

Current Research Projects:

- 1) “Mineral Polymerization of Some Industrial Rocks and Minerals in Jordan”, funded by the Academic Research Council, The University of Jordan, amount of fund is 20000 JD.
- 2) “Direct Combustion of Ellajjun Oil Shale: Influence of Shale Particle Size on Sulfur Dioxide Emission”, funded by the Academic Research Council, The University of Jordan, amount of fund is 8600 JD.
- 3) “Crystal Growth and Impingement in Polymer Melts”, funded by the Academic Research Council, The University of Jordan, amount of fund is 7350 JD.
- 4) Crystalline Monoammonium Phosphate Production from Granular Diammonium Phosphate.
- 5) Effect of Iron Oxide nanoparticles on the morphological and Mechanical Properties of Isotactic Polypropylene.
- 6) Crystallization Kinetics of Polyethylene Terephthalate/Polycarbonate Blends in the Presence of Nanofillers and a Catalyst.

Publications:

- 1) Mubarak, Y., Harkin-Jones, E., Martin, P.J., Ahmad, M., "Crystallization of Isotactic Polypropylene: Pigment, Nucleating Agent and Recycling Effects". 57th SPE ANTEC, New York, 3796-3800, 1999.
- 2) Mubarak, Y., Harkin-Jones, E., Martin, P.J., Ahmad, M., "Crystallization Kinetics of Isotactic Polypropylene: Pigment, Nucleating Agent and Recycling Effects". III Jordanian Chemical Engineering Conference, Vol. I, 49-70, 1999.
- 3) Martin, P.M., Lappin, J., Mubarak, Y., Harron, G., Dixon, D., Collins, P., Martin, N., Harkin-Jones, E., "Developments in Thermoforming Research", Polymer Process Engineering 99, 204-214, June 1999.
- 4) Mubarak, Y., Harkin-Jones, E., Martin, P.J., Ahmad, M., "Crystallization of Isotactic Polypropylene: Comparison Between α and β Growth Rates", 58th SPE ANTEC, Orlando, 1626-1630, 2000.
- 5) Mubarak, Y., Martin, P.J., Harkin-Jones, E., "Effect of Nucleating Agents and Pigments on Crystallisation, Morphology, and Mechanical Properties of Polypropylene", Plastics, Rubber and Composites, Vol. 29, No. 7, 307-315, 2000.
- 6) Mubarak Y., Harkin-Jones E., Martin P.J., "Crystallization and Ageing Behaviour of Extruded Isotactic Polypropylene", European Conference on Macromolecular Physics 241, Portugal, 39-40, 2000.
- 7) Rawajfeh, K.M., Mubarak, Y., "Study of the Effect of Some Parameters Influencing the Removal of Iron from Feldspar Found in the South of Jordan Using Hydrochloric Acid", Dirasat, Engineering Sciences, Vol. 28, No. 1, 24-35, 2001.
- 8) Mubarak, Y., Harkin-Jones, E., Martin, P.J., Ahmad, M., "Modelling of Non-Isothermal Crystallization Kinetics of Isotactic Polypropylene", Polymer, Vol. 42, 3171-3182, 2001.
- 9) Allan, P.S., Bevis, M.J., McCalla, A., Mubarak, Y., Yasuda, K., "Multicomponent Laminate Molding (MLM)", 60th SPE ANTEC, San Francisco, 670-674, 2002.
- 10) Hornsby, P., Allan, P.S., Bevis, M.J., McCalla, A., Mubarak, Y., "An Evaluation of Heat Management in Injection Mould Tools", 60th SPE ANTEC, San Francisco, 2002.
- 11) Khoury, H.N., Hodali, H., Hourani, M.K., Mubarak, Y., Faqir, N., Hanayneh, B., and Esaifan, M., "Mineral Polymerization of Some Industrial Rocks and Minerals in Jordan", Publications of Deanship of Academic Research University of Jordan, 2008.
- 12) Mubarak, Y., Abbadi, F.O., and Tobgy, A.H. "Effect of Iron Oxide Nanoparticles on the Morphological Properties of Isotactic Polypropylene", Polymer Engineering Science, in press, 2009.
- 13) Mubarak, Y. " Thermal and Mechanical Properties of Polyethylene Terephthalate/Polycarbonate Nanocomposites Modified by Lanthanum Acetyl Acetate Hydrate", Submitted to Polymer Engineering Science, 2009.

Papers Submitted for Publication

- 1) Mubarak, Y., "Effect of Crystallization Temperature on Urea Phosphate Crystals", Dirasat, under processing.
- 2) Mubarak, Y., "Production of Monoammonium Phosphate Crystals from Granulated Diammonium Phosphate", Dirasat, under processing.
- 3) Mubarak, Y., "Thermal and Mechanical Properties of PET/PP Nanocomposites", under preparation.
- 4) Mubarak, Y., "Enhancement of PP impact properties using Polyether block amide", under preparation.

Thesis:

- "A study of the Crystallization and Ageing of Isotactic Polypropylene", PhD Thesis, School of Chemical Engineering, The Queen's University of Belfast, June 2000.
- "Hydrochloric Acid Leaching of Jordanian Copper Ores", M.Sc. Thesis, Chemical Engineering Department, The University of Jordan, October 1992.

Memberships:

- Member of the Jordanian Engineers Association since 1994.
- Member of the permanent plastic's committee, Jordan Institution for Standards and Metrology since June 2004.

Skills:

- I have high potential to use and install Windows 98, 2000 and XP.
- AutoCad 2D and 3 D, Polymath, MATLAB, MD Solids.
- Simulation and Modelling using CFD packages (Fluent) in addition to many other software packages.
- ISO9001.

Activities:

Football, Running, Reading, Swimming, Socialization.

Reference:

Available upon request.