

Dr. Hassan Al Alak



Assistant Professor, B.Sc. (Hon), PhD

Profile: Counsellor Attaché
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Assistant Professor, Chemical and Pharmaceutical Process Technology, Chemical Engineering, Material Engineering, Polymer Synthesis Characterization and Properties, Senior Administrations Positions.

Academic Interests:

1. Chemical Analyses related to Viscoelastic Phenomena and Pharmaceutics
2. Polymer Synthesis, Analysis, Characterisation and their applications as drug delivery vehicles
3. Chemical and Pharmaceutical Process Technology
4. Equipment Design and Process Analysis and Development

EMPLOYMENT / ACADEMIC HISTORY:

29th March 2016 –

Employer: Iraqi Cultural Attaché - London

Position: Counsellor

29th December 2015 - 27th March 2016

Employer: Ministry of Higher Education and Scientific Research – Scholarship and Cultural Relations Office – Baghdad

Position: Acting Counsellor

9th April 2014 – 29th December 2015

Employer: University of Kufa - Iraq

Position: Vice President for Scientific Affairs

29th December 2012- 8th April 2014

Employer: University of Kufa – Iraq
Position: Head of Postgraduate Office

Since I joined University of Kufa I heavily involved in all activities such as work on QS, all conferences, workshops, seminars, meetings, social gatherings, students' support, programs and curriculums' developments, supervision of post and undergraduate students' projects, consultations, member of various committees and other activities.

3rd September 2001- 28th December 2012

Employer: School of Chemical & Pharmaceutical Sciences, Dublin Institute of Technology, Kevin St., Dublin 8, Ireland.

I involved in designing and developing various undergraduate and postgraduate programmes as below:

Undergraduate Courses:

1. Forensic and Environmental Chemistry
2. Medicinal Chemistry and Pharmaceutical Sciences
3. Chemical Sciences with Medicinal Chemistry
4. Science with Nanotechnology
5. Science

Postgraduate Courses:

1. Postgraduate Diploma/MSc Pharmaceutical & Chemical Process Technology, please see:
<http://www.dit.ie/chemistry/postgraduatecourses/dt275/mscpharmaceuticalchemprocesstechpt/#d.en.32681>
2. Master Engineering (ME) Degree in Pharmaceutical Process Control and Automation

I taught various courses and subjects for both undergraduate and postgraduate levels in DIT and in other different universities worldwide. I also have wide and broad Industrial experiences.

In parallel with these academic loads I took part in supervising and researching activities. Currently I am the coordinator of the second year of the BSc Medicinal Chemistry and Pharmaceutical Sciences Programme and a committee member of the above programmes.

1993-2000 (Full-Time)

Employer: Chemical Engineering Department, Tripoly University, Libya.
Position: Senior Lecturer

1993-2000 (Part-Time)

Employer: General Company for Petrochemical and Chemical Industries, Libya.
Position: Consultant

1985 - 1992

Employer: Chemical Engineering Department, University of Technology, Baghdad, Iraq.

Position: Lecturer

1981-1985

Employer: Department of Chemical Engineering & Applied Chemistry, Aston University in Birmingham, Birmingham, B4, England.

- **Ph.D. in Chemical Engineering** under the direction and supervision of Head of Department of Professor G V Jeffrey's and Dr. C J Mumford;
"The Mechanism of Drying of Single Droplets"

1975-1981

Employer: Chemical Engineering Department, University of Technology, Baghdad, Iraq.

1971-1975

Employer: Department of Chemistry, Faculty of Sciences, University of Mosul, Iraq.

- **B.Sc. (Hons) in Chemistry** - 1st Class Honours with (74.98%).

RESEARCH INTERESTS

- Polymer Synthesis, Analysis and Characterisation in Collaboration with Dr S Jerrams, Dr N Murphy, Dr J Hanley and Deutsches Institute fur Kautschuktechnologie 'D.I.K.' Hanover - Germany <http://www.dit.ie/nlmg>
- Polymers Mechanical Properties and Behaviours, <http://www.dit.ie/researchandenterprise/ditrdcentres/cer/>
- Industrial Separation Processes (mainly Absorption and Drying Unit Operations) and Reactor Design.

COLLABORATIVE RESEARCH

- External partners research institutions, in Ireland, Malaysia, U.K. and Germany.
- Internal research engagements and activities within the Dublin Institute of Technology across a number of disciplines.

POSTGRADUAT THESIS SUPERVISED / EXAMINED

- I took part in supervising of various numbers of both MSc's and PhD's projects and examining MSc and PhD dissertations and theses. I also engaged with undergraduate graduation projects in different areas and aspects. These researches were carried out in polymers, materials, chemical and pharmaceutical process technology fields.

Recent Publications

- N. Murphy, J. Hanley, H. Ali, S. Jerrams, “The Effect of Specimen Geometry on the Multiaxial Deformation of Elastomers”, proceedings of the 5th European Conference on Constitutive Models for Rubber, Paris, September 2007 and a chapter in the book 'Constitutive models for rubber V' edited by A. Boukamel, L.Laiarinandrasana, S.Méo and E.Verron, pp 61-65. (Published by Taylor & Francis, ISBN 0415454425), 2007
- J. Hanley, N. Murphy, H. Ali, S. Jerrams, “The Effect of Oil Swelling on the Fatigue Life of Elastomers subjected to Cyclic Bubble Inflation”, KGK Kautschuk Gummi Kunststoffe, (In Press), 2007.
- J. Hanley, N. Murphy, H. Ali, S. Jerrams, “The Effect of Oil Swelling on the Fatigue Life of Elastomers subjected to Multi-axial Fatigue using Bubble Inflation”, 11th International Seminar of Elastomers ISE 2007, Freiberg, Germany, September 2007.
- J. Hanley, N. Murphy, H. Ali, S. Jerrams, “The Effect of Oil Swelling on the Multi-Axial Fatigue Life of EPDM”, High Performance & Speciality Elastomers, (In Press), 2007.
- J. Hanley, N. Murphy, H. Ali, S. Jerrams, “Swelling Effects in Multiaxial Fatigue of Elastomers”, (Paper presented at Polymeric Materials in Automotive, Bratislava, May 2007 and submitted to Polymers for Advanced Technologies, 2007).
- S. Jerrams, J. Hanley, H. Ali, “Equi – Biaxial Fatigue of Elastomers: The Effect of Oil Swelling on Fatigue Life”, Rubber Chemistry & Technology vol 81 (2008).
- J. Hanley, N. Murphy, H. Ali, S. Jerrams, The Effect of Oil Swelling on the Fatigue Life of Elastomers subjected to Cyclic Bubble Inflation, KGK Kautschuk Gummi Kunststoffe, pp 49-52, January/February 2008.
- J. Hanley, N. Murphy, H. Ali, S. Jerrams, The Effect of Oil Swelling on the Multi-Axial Fatigue Life of EPDM, Paper 9, High Performance and Speciality Elastomers, Fourth International Conference (Published by Smithers Rapra Technology, ISBN 978-1-84735-021-3), 2007.
- N. Murphy, J. Hanley, H. Ali, S. Jerrams, The Effect of Specimen Geometry on the Multiaxial Deformation of Elastomers, proceedings of the 5th European Conference on Constitutive Models for Rubber, Paris, September 2007 and a chapter in the book 'Constitutive models for rubber V' edited by A. Boukamel, L. Laiarinandrasana, S. Meo and E.Verron, pp 61-65. (Published by Taylor and Francis, ISBN 0415454425), 2007

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