

## Curriculum Vita (C.V.) Prof. Dr. Mohsen A Hashem.



### 1. NAME AND ACADEMIC RANK

,Mohsen Hashem Mohmed, Professor

### 2. COMMUNICATIONS

- E-mail address: [drmohsen2@hotmail.com](mailto:drmohsen2@hotmail.com), or [drmohsen\\_1@yahoo.com](mailto:drmohsen_1@yahoo.com)
- Telephone (Mobile 966- 0563360941 work: 966-7-3215077)

### 3. DEGREES

- Ph.D. Mass Transfer , El Minia university, Egypt,1997(Channel system UK
- M.S. Water Treatment, Cairo university, Egypt,
- B.S. in Chemical Engineering, El Minia University, Egypt,

### 4. YEARS OF SERVICE AT Jazan University

From. 2009 up to now.(2015)

### 5. OTHER RELATED EXPERIENCE

Visiting Professor at AVT Aachen- Germany (6 month 2008)

Referee of many International Journals and Research Projects

Demonstrator (part-time) at Bradford University, Uk ( 1994.-1997)

Editor of Minia Engineering Journal, Egypt

Many international conferences (USA, Uk, Germany, etc)

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Faculty of Engineerin

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drmohsen2@gmail.com

**Language** English, little Germany and France

**Higher Education**  
1985 B.Sc. Chem. Eng. (Hons), El-Minia University  
1989 M.Sc. Chem. Eng, Cairo University  
1997 Ph D. Chem. Eng (Chanel System ,England )

**Present Position** Professor, Department of Chemical. Engineering,  
College of Engineering, Jazan University

**Professional Association** Egyptian Association of Chemical Engineer, Egypt  
Egyptian Engineering Syndicate, Egypt

**University Posts** Demonstrator, Chem. Eng. Dept. 1986 -1989  
Assistant lecture, Chem. Eng. Dept. 1989 - 1997  
Lecture, Chem. Eng. Dept. 1997- 2002.  
Associated professor 2002 – July 2007  
Professor (August 2007) up to now

### Thesis

#### **Hashem, M.A., (PhD)**

Mass Transfer in Agitated Liquid-Liquid Extraction Columns. Ph.D. thesis, Chemical Engineering Department, El-Minia University, El-Minia Egypt, 1997.

#### **Hashem, M.A., (MSc)**

Enhancement of Sedimentation by some Agriculture by-product. M.Sc. thesis, Chemical Engineering Department, Cairo University, Egypt 1989.

### Research Experiences

#### **1986-1989**

Enhancement of sedimentation by some agriculture by product, M. Sc. Project by Prof. M. El-Sayed Abou El-Hassan. Cairo University, Egypt.

#### **1990-1993**

B.Sc. project with Prof. M.M. Nassar, Prof. O.A. Fadali Prof. I. Ashour, El-Minia University, and Prof. G.H.Sedahmed Alexandria University in the following area: Extraction process (liquid/liquid and solid liquid), Separation process (extraction, adsorption, distillation)  
Pollution control, Liquid extraction, Adsorption and Water and wastewater treatment

#### **1994 -1997**

Mass transfer in agitated liquid-liquid extraction columns, Ph.D. project supervised by Prof. G.H.Sedahmed, Dr. M.J. Slater (UK), Prof. O.A.Fadali, Prof. Dr. I. Ashour

The experimental work has been done abroad at Chemical Engineering Department, University of Bradford, UK,

### **Teaching Experience**

1986 -1994

#### **Graduate teaching Assistant for the following courses:**

Transport Phenomena (heat and mass transfer),  
Final year project, Chemical Engineering Drawing,  
Fluid Dynamic, Heat and mass transfer  
Principles, Chemical Engineering Thermodynamic, Unit  
Operation for Chemical Engineering, Petroleum and  
Petrochemical Engineering, Water and Wastewater  
Treatment, Chemical Engineering Laboratory.

1997 - 2002

#### **Lecture of Chemical Engineering**

##### **Courses Taught at Undergraduate Level:**

Transport Phenomena (mass transfer, heat transfer, fluid  
mechanics), Chemical Engineering Laboratory,  
Unit Operation, Water and wastewater treatment, Fundamental  
of Chemical Engineering, B.Sc. project, Applications of  
Computer in Chemical Engineering, Principles of Technical  
Writing.

##### **Courses Taught at Postgraduate**

Transport phenomena  
Pollution control  
Economics of wastewater treatment,  
Numerical analysis for Chemical Engineering.

**2002 – July 2007**

September 2007

Associated Professor of Chemical Engineering

Professor of Chemical Engineering

##### Under graduate teaching

Mass transfer, Unit operation for chemical Engineering

##### Post graduate

Transport phenomena (M.Sc )

Economic of water treatment (Diploma. Chem Eng.)

**From June 2008**

**To Dec. 2008**

Working as visiting professor at RWTH Aachen University

Germany Dec. 2008 with Prof Dr. Ing. Andrease Pefnnig,

Thermal unit operation, RWTH University, Aachen- Germany

**From 2009 till now** full time professor of chem. Eng. Jazan university, K.S.A

### **Quality Assurance and Accreditation**

Attended more than 20 meeting of Quality Assurance and Accreditation Project, each  
of them between 3 and 5 days period with different title.

### **Special Research Interest**

Mass transfer, liquid extraction, Adsorption, flotation, Water and wastewater treatment, Environmental pollution control  
Solid and liquid waste recycling, Plant design and application of computer for chemical Engineering.

### **Consultants and Reports**

1- Solvent Selections In liquid -liquid extraction, by **Hashem, M.A.**, Submitted to SPS, UK, by Supervised Slater, J.M. and Godfry, J.C. October, 1995

2- Drop breakage in a rotating disc contactor, SPS progress report No. 36, **Hashem, M. A.**, Slater, J.M. and Godfry, J.C., and Patel, R., June 1996

### **Activity**

Member of [European-science parliament](#), RWTH, Aachen university, Germany 9-10, October 2008

Member of SPS , Bradford, Uk, 1994-1997

Member of Egyptian Engineering Syndicate, Egypt

Member of consultant unit of Faculty of Engineering

Referee of four Journal in the field of adsorption and mass transfer

Travelling Abroad to many Countries for scientific work and conferences e.g. UK, USA, Germany, Austria, Poland, Holland, Slovak..

Visiting Professor at RWTH Aachen University for 6 Months from June to Dec 2008, working with Prof. Dr. Ing. Andrease Pefnig, RWTH Aachen University, Germany

### **Selected Publications**

37-JABRIL A, KHAMAJ, AHMED ABUTALEB AND **MOHSEN A. HASHEM**, ENVIRONMENTAL POLLUTION CONTROL BY TREATMENT OF HEAVY METAL EFFLUENTS, Journal of Applied Chemical Science International, December 2017, 8(3): 111-121, 2017 ISSN: 2395-3705 (P), ISSN: 2395-3713 (O),2017

36-**Mohsen A Hashem**, Jabril Ahmed Khamaj and Ahmed Abutaleb, Effect Of Fluids Properties On The Velocity Of Single Drop In Spray Column, Journal of Multidisciplinary Engineering Science and Technology (JMEST). Vol. 3 Issue 11, November - 2016

35-Mohammednoor N. Almaghrabi , Saleh Mater and **Mohsen A Hashem**, Textile Effluent Treatment by A gricultural Solid Waste, I R J. 2015

34-**Mohsen A. Hashem** and Mohammednoor N. Almaghrabi , Theoretical and experimental studies for wool wax recovery by flotation, Vol. 8(41), pp. 1954-1965, 9 November, 2013

33-**Hashem, M. A. and Almaghrabi, M. N.**, *Modelling Mass Transfer Coefficients During Drop Formation* , JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY REVIEW, volume 4, issue 2, 2011

32=**Hashem, M.A.**, Elsayed, I, Comparative study of effluent treatment from textile industry by low cost adsorbent, 3<sup>rd</sup> international conference on environmental engineering ( ASCEE-3 ), Ain- Shams University-Egypt 14 -16-2009

- 31- **Hashem, M.A.**, Elsayed, I, Comparative study of effluent treatment from textile industry by low cost adsorbent, 3<sup>rd</sup> international conference on environmental engineering ( ASCEE-3 ), Ain- Shams University-Egypt 14 -16-2009
- 30- **Hashem, M.A**, Removal of phenolic compound's from waste water, J of Minia university volume 4, 2010
- 29- **Hashem, MA**, Kalem, M and Pfennig, A., Characteristics of mass transfer during drop formation, to be presented at RETBE 08, Role of Engineering towards better Environment, Alexandria Egypt 22-25 Dec 2008
- 28- Morad, M A , Rabeh, K M and **Hashem, M. A**, LPG as an alternative Fuels, First International conferences for Environmental engineering, Menofia University Egypt 22-25 April 2008
- 27- **Hashem, M. A**, Adsorption of lead ions from aqueous solution by okra Wastes, International Journal of Physical Sciences Vol. 2 (7), pp. 178-184, July, 2007
- 26- **Hashem, M. A**, Farrage, T.E. and Abdel Moneim, R. M. Human hair as biosorbent to uptake some dyestuffs from aqueous solution Alex. Engineering J., Vol. 46, No. 1, 2007
- 25- **Hashem, M. A** and El-Bassouni, A.A., Effluent Treatment by Solvent Extraction, presented, International conferences of Emerging Issues along Urban/rural interface at 9-12 April 2007, GA - Atlanta USA 2007
- 24- **Hashem, M A** and El-Bassouni. A A, Drop Formation Mass Transfer Coefficients in Extraction Columns, Journal of Theoretical Foundation of Chemical Engineering Journal in volume 41, no. 5, pp. 506, 2007
- 23- **Hashem M. A.**, Agricultural Residue for Heavy metal Removal From Aqueous solution, El-Minia Engineering Journal, Vol. 20, No. 2, pp. 51- January 2007
- 22- **Hashem, M**, Modeling of Mass transfer Coefficient of Single Liquid During Formation in Extraction Column, Proceeding of the 6<sup>th</sup> International Conference RETBE 06, Role of Eng. Towards a Better Environment, organised by Faculty of Engineering, Alexandria University, Egypt 16-18 Dec. 2006
- 21- Taha,E., Asfour, H.M., Abdelwahab, M.Z. and **Hashem, M.A.**, Recovery of Wool Wax from Industrial Effluent by a Batch Air Flotation Technique, 3<sup>rd</sup> International conference on chemical and Environmental engineering, 16-18 May 2006 Military Technical College, Egypt 2006
- 20- Elshayb, M.A, R.M. Abdel Moneim and **M.A.Hashem**, Factors Controlling the Properties of Ceramic Body and Glazes, 5<sup>th</sup> Int. Eng. Conference, Al-Mansoura and Sharm ElShikh (5<sup>th</sup> IEC)27-31, March 2006

- 19- Hashem, M. A**, Effect of SDS on the Mass transfer Coefficient of Single Liquid in Extraction Column ,3<sup>rd</sup> Minia International Conference for Advanced Trends in Engineering, MICATE' 3- 5- April 2005
- 18- Hashem, M. A**, Effect of Surfactant on Mass Transfer Coefficients of Single liquid Drops, Alex Eng. J., Vol.44. No.3, 2005
- 17- Hashem, M. A**, Effect of Surfactant on Drop Mass transfer Coefficient, on the 5<sup>th</sup> Egyptian- Syrian conference of Chemical and Petroleum Engineering 13-16 Oct. 2003
- 16- Mohamed, A.A , **Hashem, M. A** and R.M. Abdel Moneim, Silver Recovery from aqueous Waste using Packed Bed Cementation Reactor, J. of the faculty of Eng. El-minia University, vol. 20, no.2, 2002
- 15- Ashour I. A., **Hashem, M. A.** and Elshayb, M.A., Applicability of Solvent Extraction to Environmental Protection: Overview on solvent selection for phenol removal. Proceeding of the 4<sup>th</sup> International Conference RETBE 02, Role of Eng.Towards a Better Environment, organised by Faculty of Engineering, Alexandria University, Egypt 21-23 Dec. 2002.
- 14- Hashem, M.A.**, Effect of Surfactant on Hydrodynamic of Single Liquid Drop, The second Minia International Conference for Advanced Trend in Engineering, MICAT 2002, 7-9 April 2002, El-Minia, Egypt 2002
- 13- AbdelWahab, M.Z., **Hashem, M.A.** and Magdy, Y.H., Lead Removal by Sorption Technique, El-Minia Engineering J., vol.2, no. 3, 2001.
- 12- Hashem, M.A.**, Mass Transfer Coefficients of Single Liquid Drops in Extraction Columns, Alexandria Engineering J., Vol. 40, No.6, 2001.
- 11- Hashem, M.A.**, Hydrodynamic and Mass Transfer Coefficients of Single Liquid Drops in Extraction Columns, the 6<sup>th</sup> international congress of chemical engineering, organised by Egyptian Society of Chemical Engineering's, 16-19 October 2001, Cairo Egypt. 2001
- 10- Abdel Monem, R. M., **Hashem, M. A.** and Mohamed, A.A. Further studies on Phenol Removal from Dilute Aqueous Solution, the 6<sup>th</sup> international conference on Environmental Health Risk 2001, 10-12 Sep, Cardiff, Wales, UK 2001
- 9- Hashem, M. A** and El-Bassouni A.A, Enhancement of Single Liquid Drop Mass Transfer Coefficients in a Perforated Plate Column., The first International Conference for Multiphase Flow 2001, 14-16 March 2001 Orlando, Florida, USA 2001
- 8- Hashem, M. A.**, Effect of Down Flow of the Continuous Phase on the Drop Terminal Velocity, Proceeding of the 3<sup>rd</sup> International Conference RETBE 2000, organised by Faculty of Engineering, Alexandria University, Egypt 18-20 Nov. 2000.
- 7- Hashem, M.A.**, Nassar, M.M. and Mahdy, M.A., Agriculture residue as sedimentation aids for treatment of uranium ore, The first Minia international

conference for advanced trend in engineering, MICAT 1999, 14-16 March, 1999, El-Minia Egypt 1999

6- Sedahmed, G.H, Fadali, O.A Slater M.J. and **Hashem, M.A** Mass transfer Characteristic and Motion of Non-Breaking Single Liquid Drop in Kuhni Columns, the 4<sup>th</sup> international symposium at the Queens University of Belfast, UK, June 22 to 27 1998.

5- Sedahmed, G.H., Ashour, I., Slater M.J and **Hashem, M.A** Drop Formation Mass Transfer In a Rotating Disc Contactor, the 4<sup>th</sup> international symposium at the Queens University of Belfast, UK. 22 - 27 Jun 1998.

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4- Sedahmed, G.H, Fadali, O.A Slater M.J. and **Hashem, M.A**, Mass transfer Characteristic and Motion of Non-Breaking Single Liquid Drop in Kuhni Columns, the 4<sup>th</sup> international symposium at the Queens University of Belfast, UK, June 22<sup>nd</sup> to 27<sup>th</sup> 1998.

**3- Hashem, M.A.** and Slater, M.J., 1997, Continuous phase film mass transfer coefficients in rotating disc contactors The 1997 Jubilee Research event, IChemE, 1997.

**2-Hashem, M.A.** and Slater, M.J., 1996, Enhancement of drop mass transfer coefficient in a liquid -liquid system using RDC, Fluid Mixing 5, Bradford, IChem Eng, symposium ser. No. 140, Bradford Uk, 1996

1- Fadali, O.A., Ashour, I., Slater, M.J. and **Hashem, M.A.**, Studies of Drop Break-up and Characteristic Velocity in Liquid-Liquid Systems in Rotating Disc Contactor, Minia First Conference in Engineering and Technology (MFCET'95), 8-10 October 1995