



PERSONAL INFORMATION

Name: Rami Abdel-Rahem
Family Statues: Married
Nationality: Jordanian
Date of Birth: 14-November-1974
Place of Birth: As Sarih
Address in Jordan: As Sarih-Irbid –Jordan,
Mobile Number : 0779214971
Email Address: Shiyap@yahoo.com
rabelrahem@kfu.edu.sa

EDUCATION

Doctor of Natural Science (Dr.rer.nat) in Physical Chemistry

Date of obtaining the degree: October 2003
Name of the University: University of Bayreuth
Location: Germany- Bayreuth- University of Bayreuth-
Department of Physical Chemistry I.
PhD thesis title : Phase Behaviour and Structural Transitions in the
Mixtures of Cationic Surfactants and Hydrophobic
Counterions.
Name of the supervisor Prof. Dr. Heinz Hoffmann
Final grade: Magna cum laude (1,0)
Language of the thesis: English
Thesis in the net: <http://opus.ub.uni-bayreuth.de/volltexte/2003/59/index.html>

**Dr. Rami Abdel-Rahem, King Faisal University, Al-Ahsa Teachers College, Saudi Arabia, Al-
Ahsa, Qatar Street, P.O.Box: 2313, (Al-Hafouf) 31982**

Mobile Number: 00966568374784

Email: Shiyap@yahoo.com

Master of Science (M.Sc.) in Applied Chemistry

Date of obtaining the degree: October 2000
Name of the University: Jordan University of Science and Technology.
Location: Jordan- Irbid- Jordan University of Science and Technology -Department of Applied Chemical Science.
Master Thesis Title: Physiochemical Studies on Technical Surface Active Agents in Aqueous Media.
Name of the Supervisor: Dr. Bassam Bitar
Final Grade: Very good
Language of the thesis: English

Bachelor of Science (B.Sc.) in Applied Chemistry

Date of obtaining the degree: October 1996
Name of the University: Jordan University of Science and Technology.
Location: Jordan- Irbid- Jordan University of Science and Technology -Department of Applied Chemical Science.
Final Grade: Good

High School Diploma

Date of obtaining the Degree: 1992
Name of the School: As Sarih Secondary School
Location: Jordan- Irbid- As Sarih
Final Grade: Very good

LANGUAGES				
Type of language	Speaking	Reading	Understanding	Writing
Arabic	Excellent	Excellent	Excellent	Excellent
English	Very good	Excellent	Excellent	Very good
German	Good	Very good	Very good	Good

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WORK EXPERIENCE

2005 – Until Now

Assistant Professor of Chemistry at King Faisal University ,College of Teachers and College of Science, Saudi Arabia, Al-Ahsa, Qatar Street, P.O.Box: 2313, (Alhafouf) 31982,Tel: 00966568374784. Dr. Abdel-Rahem is assigned to teach the following courses:

- Theoretical and Practical General Chemistry.
- Theoretical and Practical Physical Chemistry.
- Supervising Undergraduate Projects.

Dr. Abdel–Rahem is the coordinator of chemistry section. He is also the coordinator of social committee and a member of computer and information center at Al-Ahsa teachers college.

www.hsa.edu.sa

2003 – 2005

Lecturer of Chemistry at University of Al-Mergeb, Libya, Alkhoms, Faculty of Science and Arts Department, Chemistry Department, P.O.Box: 40770, Tel: (0021821) 31-621912-119 and (0021821) 31-621911-119, Fax: 00218-31-625953. Dr. Abdel-Rahem was assigned to teach the following courses:

- Quantum Chemistry and Molecular Spectroscopy.
- Electrochemistry.
- Kinetic of Chemical Reactions.
- Thermodynamics.
- Chemistry of Colloids.
- General Chemistry.
- Practical Physical Chemistry.
- Supervising Undergraduate Projects.

Dr. Abdel–Rahem was the coordinator of higher studies at chemistry department.

<http://www.elmergib.edu.ly/modules/aboutUniversity>

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2000 – 2003

Research and Teaching Assistant (during PhD program) at University of Bayreuth, Germany, Department of Physical Chemistry I, Bayreuth 95440. Mr. Abdel-Rahem was assigned to teach the following courses:

-Practical Physical Chemistry.

-Supervising Undergraduate Projects.

Researcher on industrial projects for Cognis Company, Germany, Düsseldorf. The projects were

1- Controlling the dissolution rate of surfactants hard table.

2- Controlling Krafft temperature of surfactant.

3- Physiochemical investigations on new modified hydroxyl mixed ether polymeric surfactants.

www.uni-Bayreuth.de

1998 – 2000

Research and Teaching Assistant (during master program) at Jordan University of Science and Technology, Jordan- Irbid- Department of Applied Chemical Science. P.O.Box (3030), Irbid 22110 Jordan. Tel (00962-2) 295111, Fax: (00962-2) 295019. Mr. Abdel-Rahem was assigned to teach the following courses:

- Industrial Chemistry laboratories.

-General Chemistry laboratories.

-Analytical Chemistry laboratories .

www.just.edu.jo

1997-1998

Analyst at Quality Control Unit at Al-Riyedh Company for Detergent Industry, Sahab, Jordan. The work involved the routine analysis [quality assurance] of food oil, soap, and detergent industries.

1996-1997

Teacher of Chemistry at the Ministry of Education, (Jordan-Irbid) Mr. Abdel-Rahem was assigned to teach the chemistry and science courses for secondary, and elementary school levels.

<http://www.moe.gov.jo>

LIST OF PUBLICATIONS

- 2004
Jingchen Hao, Jingzheng Wang, Weimin Lie, **Rami Abdel-Rahem** and Heinz Hoffmann (Zn⁺²-Induced Vesicle Formation), **J. Phys. Chem. B** (2004) 108, 1168-1172.
<http://dx.doi.org/10.1021/jp0357368>
- 2004
R. A. El-Ghazawy, **R. Abdel Raheem**, A. M. Al-Sabagh (Surface activity - thermodynamic properties and light scattering studies for some novel aliphatic polyester surfactants), *Polymers for Advanced Technologies* Volume 15, Issue 5, Date: May 2004, Pages: 244-250
<http://dx.doi.org/10.1002/pat.375>
- 2004
A.M. Al-Sabagh, M.E. Abdul-Raouf and **R. Abdel-Raheem**, (Surface activity and light scattering investigation for some novel aromatic polyester amine surfactants), *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Volume 251, Issues 1-3, 20 December 2004, Pages 167-174
<http://dx.doi.org/10.1016/j.colsurfa.2004.07.012>
- 2005
Rami Abdel-Rahem, (The Influence of Hydrophobic Counterions on the Phase behaviour of Ionic Surfactants). *Tenside Surfactants Detergents* 42 (2005) 2, 95-101.
<http://www.tsdjournal.com/directlink.asp?TS100241>
- 2005
R. Abdel-Rahem, M. Gradzielski, and H. Hoffmann(A Novel Viscoelastic System from a Cationic Surfactant and a Hydrophobic Counterion) *Journal of colloid and interfacial science*, 288, 2 , (2005), 570-582.
<http://dx.doi.org/10.1016/j.jcis.2005.03.040>
- 2006
R. Abdel-Rahem and H. Hoffmann (The Distinction of Viscoelastic Phases from Entangled Worm Like Micelles and of Densely Packed Multilamellar Vesicles on the Basis of Rheological Measurements) *Rheologica Acta* (2006) 45: 781-792.
<http://dx.doi.org/10.1007/s00397-006-0101-7>

- 2007
R. Abdel-Rahem, and H. Hoffmann(Novel Viscoelastic Systems from a Cationic Surfactant and a Hydrophobic Counterion: influence of surfactant chain length) Journal of colloid and interfacial science, Volume 312, Issue 1, 1 August 2007, Pages 146-155.
<http://dx.doi.org/10.1016/j.jcis.2006.09.023>.
- 2007
R. Abdel Rahem, Formation of Multilamellar Vesicles in the Systems of Decyltrimethylammonium hydroxides/2-hydroxy 1-carboxynaphthoate and Octyltrimethylammonium hydroxides/2-hydroxy 1 carboxynaphthoate, , Tenside Surfactants Detergents 2007/03, Page 168-175.
<http://www.tsdjournal.com/directlink.asp?TS100337>
- 2007
R. Abdel-Rahem and J. Al-Hawarin, Dissolution Rate of Sodium Fatty Alcohol Sulfate FAS – Surfactants, Tenside Surfactants Detergents 2007/05, Page 260-265.
<http://www.tsdjournal.com/directlink.asp?TS100345>
- 2008
R. Abdel-Rahem and A. S. Ayesh, Surface Activity of Newly Nonionic Surfactants at Air/Water Interface and their Interaction with Clay and Teflon, Tenside Surfactants Detergents 2008/03, Page 137-143.
<http://www.tsdjournal.com/directlink.asp?TS100371>
- 2008
R. Abdel-Rahem, [The influence of hydrophobic counterions on micellar growth of ionic surfactants](#), Advances in Colloid and Interface Science, Volume 141, Issues 1-2, 1 September 2008, Pages 24-36.
[doi:10.1016/j.cis.2008.02.002](http://dx.doi.org/10.1016/j.cis.2008.02.002)
- 2008
Ayman S. Ayesh and **Rami A. Abdel-Rahem**, Optical and Electrical Properties of Polycarbonate/MnCl₂ Composite Films, Journal of Plastic Film and Sheeting, Vol. 24, No. 2, 109-124 (2008)
[doi: 10.1177/8756087908094854](http://dx.doi.org/10.1177/8756087908094854)

- 2009** **R. Abdel-Rahem** and A. S. Ayeshe, Physicochemical Properties of Hydroxy Mixed Ether HME_n Surfactants and their Interaction with Sodium Dodecyl Sulfate SDS, Tenside Surfactants Detergents 2009/02, Page 105-111,
<http://www.tsdjournal.com/directlink.asp?TS110013>
- Submitted** **Rami Abdel-Rahem, Synergism in Mixed Anionic–Amphoteric Surfactant Solutions: Influence of Anionic Surfactant Chain Length.** Submitted to Tenside Surfactants Detergents.
- In preparation** H. Hoffmann and **R. Abdel-Rahem**, Influence of co-solvent on the rheological behavior of aqueous viscoelastic surfactant systems, in preparation

POSTERS

- 2003** Poster in Bayreuth university " Phase studies between alkyltrimethyl ammonium hydroxides and 2-hydroxy-1-naphtoic acids"
- 2002** Poster in Heidelberg university " Phase studies between Cetyltrimethyl ammonium hydroxide and various hydroxy-naphtoic Acids"

CONFERANCES

- 2003** Conference for colloidal science (Bayreuth-Germany)
- 2003** Conference for colloidal science (Heidelberg-Germany).
- 2002** Summer course by BASF company (Ludwegshafen-Germany).
- 2002** Conference for thin films and interfacial phenomenon-Strukturierte Oberflaechen (Würzburg-Germany).

TECHNIQUES

- Electron Microscopy:** Preparation the liquid samples for transmission electron microscopy (TEM) using freeze fracture and cryogenic temperature methods (FF and Cryo-TEM).
- Dynamic and Static Light Scattering.**
- Rheology:** Using double gap and cone plate rheometers.
- Polarized and Differential Microscopy.**
- Differential Scanning Calorimetry (DSC).**
- Small Angle Neutron Scattering (SANS).**
- Surface Tension, Interfacial Tension, and Contact Angle Methods.**
- Theoretical background and short experience on:** High Performance Liquid Chromatography (**HPLC**), Gas Chromatography (**GC**), Infra Red and Ultra Violate Spectroscopy (**IR** and **UV**), Atomic Force Microscopy (**AFM**), Gel permission Chromatography (**GPC**), Mass Spectroscopy, Nuclear Magnetic Resonance (**NMR**).

REFERES

- Prof. Dr. Heinz Hoffmann:** Bayreuther Zentrum für Kolloide und Grenzfläche, Gottlieb-Keim-Str. 60, 95448 Bayreuth. Tel: 0049-(0)921-50736-135 oder 136, Fax: 0049-(0)921- 50736-139. Email: Heinz.Hoffmann@nmbgmbh.de
- Dr.Bassam Bitar:** Jordan University of Science and Technology, Department of Applied Chemical Science, Irbid, Jordan. Email: Bbitar.alfa@batelco.jo

Computer skills: Basic, Fortran and Microsoft office

Hobbies: Swimming, watching cinema and television

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