

**(Resume Curriculum)**

First Middle Grandfather Family  
Name: **Zeid Abdullah Mohammad ALOthman**

Nationality: **Saudi**

Sex: **male**

Current Academic Rank: **Assistant Professor**

Languages : **Arabic and English**

**Contact Information**

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**Academic Degrees:**

**1) Ph.D:**

University: **Oklahoma State University** College: **Science**

University Location (City, Country): **Stillwater – Oklahoma State - USA**

Date Obtaining Degree: **December 2006 (with GPA 3.92/4.00)**

Title of Ph.D. Dissertation: "Synthesis, Modification and Application of Mesoporous Material Based on MCM-41"

Advisor's Name: **Dr. Allan W. Apblett**

Applicant's Major: **Analytical and Environmental Chemistry**

Applicant's Minor: **Inorganic Chemistry**

## **2) B.Sc.**

University: **King Saud University**                      College: **Science**

University Location (City, Country):                      **Riyadh, Kingdom of Saudi Arabia**

Date of Obtaining Degree:    **July 1997 (with GPA 4.58/5.00 with honor degree)**

Applicant's Major:    **Chemistry**

### **Employment History**

- December 2006 till present **Assistant Professor**, Department of Chemistry, King Saud University, Riyadh, Kingdom of Saudi Arabia.
- August 1997 – July 1998 **Teaching Assistant**, Department of Chemistry, King Saud University, Riyadh, Kingdom of Saudi Arabia.

### **Work Experience**

- 2006 – till now Assistant Professor, Chemistry Department, College of Science, King Saud University. Riyadh, Saudi Arabia
- 2005 – 2006 Coordinator of new Saudi students, International Students Services, Oklahoma State University, Stillwater, Oklahoma, USA.
- 2004 – 2006 The president of the Saudi Student Club, Stillwater, Oklahoma, USA.
- 2000 – 2004 Member of board committee of the Saudi Student Club, Oklahoma, USA.
- 2000 – 2006 Worked as a graduate researcher in the department of chemistry, Oklahoma State University, Stillwater, Oklahoma, USA, with scholarship from King Saud University, Riyadh, Kingdom of Saudi Arabia.
- 1997-1998 Teaching Assistant, Chemistry Department, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia.

### **Scholarship Awards:**

- Prince Bandar Bin Sultan award, 2006.
- Scholarship offered by King Saud University to Study M.Sc. and Ph.D. degrees in United States of America, 1998.
- Honor with Excellence from King Saud University, Riyadh, Kingdom of Saudi Arabia 1997.
- Award of College of Science Scientific Preeminence, King Saud University, Riyadh, Kingdom of Saudi Arabia 1996.

## Committees:

- The supervisor of the Nanomaterials and Nanotechnology training course, organized in collaboration between King Abdullah Institute for NANO technology and Saudi Chemical Society, chemistry department, King Saudi University, Riyadh, May 18-20, 2008.
- Member of the plan study committee of the new B.Sc. Academic Program for department of chemistry after incorporate the preparatory year, chemistry department, King Saud University, April 28, 2008.
- The supervisor of the training course (Theoretical and Practical Training in High Performance Liquid Chromatography, HPLC), Saudi Chemical Society, chemistry department, King Saudi University, Riyadh, April 26-30, 2008.
- Member of the workshop committee of the strategic planning project for King Saud University, Riyadh, Kingdom of Saudi Arabia, Mar. 16, 2008.
- Member of King Saud University's delegates to discuss the collaboration potential with the top French universities and institutes, Paris, France, Feb. 25-29, 2008.
- Member of the college of science committee to follow up the signed contracts between King Saud University and the international institutes and universities, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia, Jan. 30, 2008.
- Head of the King Saud University's delegates to the 5<sup>th</sup> Forum for Korea-Middle East Cooperation, Seoul, South Korea, Dec. 6-7, 2007.
- Member of the organizing committee of the 7<sup>th</sup> Saudi Engineering Conference King Saud University, Riyadh, Kingdom of Saudi Arabia, Dec. 2-5, 2007.
- Head of the Strategic plan committee of the chemistry department, King Saudi University, Nov. 10, 2007 and for one year.
- Member of the organizing committee of the Nano research workshop (Nano Research at Universities: The Road toward Fulfilling the Vision of Custodian of the Two Holy Mosques), King Saud University, Riyadh, Kingdom of Saudi Arabia, 28-29/10/2007.
- The supervisor of the safety in the laboratory training course, Saudi Chemical Society, chemistry department, King Saudi University, Riyadh, Oct.20 –Dec.12, 2007.
- Member of the Strategic plan committee of the college of Science, King Saudi University, Oct.2, 2007 and for one year.
- Member of the plan study committee of the new B.Sc. Academic Program for department of chemistry, King Saud University, Sep.29, 2007.
- Member of [Qiyas](#) committee at [King Fahd Security College](#) in Riyadh, Kingdom of Saudi Arabia, July 12, 2007.

- Head of the preparatory committee for the King Abdullah prize for research in the Arab countries, King Saudi University, June 30, 2007.
- Member of the chemistry department committee to study faculty's rights and demands, chemistry department, King Saud University, Riyadh, June 12, 2007.
- Member of the administrative Council for Saudi Chemical Society, King Saud University, Riyadh, June 8, 2007 till now.
- Member of the chemistry department head's Prize committee, chemistry department, King Saud University, May 29, 2007.
- Member of **Qiyas** committee at community college in Riyadh, Kingdom of Saudi Arabia, Mar. 22, 2007 till now.
- Member of Organizing Committee for the Third Saudi International Conference for Science (New Trends for Science and it's Applications), King Saud University, Riyadh, Kingdom of Saudi Arabia, Mar. 10-13, 2007.

#### **Membership of Scientific Associations:**

- Membership of **Royal Society of Chemistry (RSC)**, since 2008.
- Membership of **Saudi Pharmacy Society (SPC)**, since 2008.
- Membership of **Saudi Chemical Society (SCS)**, since 1996.
- Membership of **American Chemical Society (ACS)**, since 2001.
- Membership of **American Association for the Advancement of Science (AAAS)**, 2004.
- Membership of **Materials Research Society (MRS)**, 2004.
- Membership of **American Ceramic Society (ACerS)**, 2004.
- Membership of **Phi Lambda Upsilon (PLU, Honorary Chemical Society)**, 2001.

#### **CONFERENCES, SYMPOSIUM, WORKSHOPS AND OTHER ACTIVITIES**

- Training course on **Use of information & Communication Technology in Academic Teaching**, Deanship of Skills Development, King Saud University, Riyadh, Dec. 14-16, 2009.
- Training course on **Strategic planning in academic**, Prince Naif Institute for Research and Consulting Services, Allmam Islamic University, Riyadh, Nov. 14-16, 2009.
- International conference in Nanotechnology, Frascati, Italy, Oct. 19-22, 2009.
- 11<sup>th</sup> international conference in advanced materials, Rio De Janiro, Brazil, Sept. 20-25, 2009.
- **238<sup>th</sup> American Chemical Society (ACS) National Meeting**, Fall 2009, Washington D.C, USA, Aug. 16-20, 2009.

- Training course on **Effective Presentation Skills**, Deanship of Skills Development, King Saud University, Riyadh, Jun. 6-7, 2009.
- Improving Higher Educational Institutions: Empowering Future Generations, University of Malaya City Campus, Kuala Lumpur, Malaysia, Feb. 25-26, 2009.
- **236<sup>th</sup> American Chemical Society (ACS) National Meeting**, Fall 2008, Philadelphia, PA, USA, Aug. 17-21, 2008.
- Course on **Chemically Active Ceramics and Nano-structures: Synthesis and Characterization**, College of Engineering, King Saud University, Riyadh, June 7-9, 2008.
- The workshop on **Universities Between International Ranking & Accreditation**, King Saud University, Riyadh, Kingdom of Saudi Arabia, Jun 1-2, 2008.
- International Inauguration Workshop of **Center of Excellence for Concrete Research and Testing (CoE-CRT)** at King Saud University, Riyadh, Kingdom of Saudi Arabia, May 26-27, 2008.
- The workshop on **Chinese Experience In Nano Industry Workshop**, King Saud University, Riyadh, Kingdom of Saudi Arabia, May 25-27, 2008.
- The workshop on **Research Centers of Excellence at King Saud University (Concept & Application)**, King Saud University, Riyadh, Kingdom of Saudi Arabia, May 18-19, 2008.
- The first workshop of **the strategic planning project for King Saud University**, Riyadh, Kingdom of Saudi Arabia, Mar. 16, 2008.
- **The Knowledge Based Industries & Nanotechnology Conference**, Doha, Qatar, Feb. 11-12, 2008.
- The first workshop on **the vision and plans of the leaders at King Saud University (strategic planning project)**, Riyadh, Kingdom of Saudi Arabia, Jan. 29, 2008.
- **Symposium on Asbestos Hazards and it's Safe Removal**, Ministry of Defense, Riyadh, Kingdom of Saudi Arabia, Jan. 26-27, 2008.
- **Training course on development of knowledge in the field of interest, Deanship of Skills Development**, King Saud University, Riyadh, Jan. 13-16, 2008.
- International Inauguration Workshop of **The Excellence Center of Science & Mathematics Education** at King Saud University, Riyadh, Kingdom of Saudi Arabia, Jan. 8-9, 2008.
- Information Technology & National Security Conference, General Intelligence Presidency, Riyadh, Kingdom of Saudi Arabia, Dec. 1-4, 2007.
- **The Workshop on Building an Effective Material**, King Saud University, Riyadh 19-21/11/2007.
- **The Second Workshop on Quality Assurance & Assessment**, King Saud University, Riyadh 11-13/11/2007.
- **Training on JESOR system for E-Learning**, King Saud University, Riyadh, Kingdom of Saudi Arabia, 30-31/10/2007.
- **The First Workshop for the New Faculties**, King Saud University, Riyadh, Kingdom of Saudi Arabia, 28-30/10/2007.

- **Conference and workshop of "Nano Research at University, The Road Toward Fulfilling the vision of Custodian of the Tow Holy Mosques"**, King Saud University, Riyadh, Kingdom of Saudi Arabia, 28-29/10/2007
- **The Safety in the Laboratory Training Course**, Saudi Chemical Society, Chemistry Department, King Saudi University, Riyadh, Oct.20 –Dec.12, 2007.
- **The First Workshop on E-Learning**, King Saud University, Riyadh, 24-25/7/2007.
- **The First Workshop on Designing Courses and Experts of Contents**, King Saud University, Riyadh, Kingdom of Saudi Arabia, 14 – 18/7/2007.
- **The Third Saudi Conference on Science**, (New Trends for Science and it's Applications), College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia, 10-13/3/2007.
- **229<sup>th</sup> American Chemical Society (ACS) National Meeting**, Spring 2005, San Diego, CA, USA, March 13-17, 2005, Poster.
- **The Workshop on Atomic Absorption Spectroscopy Instrument**, Chemistry Department, Oklahoma State University, Stillwater, Oklahoma, USA, Oct. 19, 2004.
- **227<sup>th</sup> American Chemical Society (ACS) National Meeting**, Spring 2004, Anaheim, CA, USA, March 27 - April 1, 2004, Poster.
- **American Chemical Society Regional Meeting**, Dallas, Texas, United States of America, Oct. 23-25, 2004, Poster.
- **Techniques of Electron Microscopy: A Program Teaching and Training on Transmission Electron Microscope, Scanning Electron Microscope, and Confocal Microscope**, Oklahoma State University, Stillwater, Oklahoma, USA, Aug. 23 – Dec. 15, 2004.
- **American Chemical Society Regional Meeting**, Oklahoma City, Oklahoma, United States of America, Sept. 5-7, 2003, presentation.
- **Research Methodology Training Course**, Oklahoma State University, Stillwater, Oklahoma, USA, Jan.14 – May 9, 2003.
- **Safety in Operating X-Ray**, College of Engineering, Oklahoma State University, Stillwater, Oklahoma, USA, July 17, 2002.
- **Safety in Laboratory**, Chemistry Department, Oklahoma State University, Stillwater, Oklahoma, USA, Aug. 24, 2001.
- **Quality University Instruction: A Teaching Effectiveness Training Program**, Oklahoma State University, Stillwater, Oklahoma, USA, Jan.11 – May 6, 2000.

## RESEARCH WORK

Research Work Submitted:

1. [Preparation of Mesoporous Silica with Grafted Chelating Agents for Uptake of Metal Ions](#) Zeid AlOthman, Allen W. Apblett, *Chemical Engineering Journal*, *In Press, Accepted Manuscript*, Available online 25 September 2009
2. [Synthesis of mesoporous silica grafted with 3-glycidoxypropyltrimethoxy–silane](#) Zeid AlOthman, Allen W. Apblett, *Materials Letters*, Volume 63, Issue 27, 2009, 2331-2334

3. [Theoretical study of TBD-catalyzed carboxylation of propylene glycol with CO<sub>2</sub>](#) Wei Wei, Jun Ma, Xuelan Zhang, Ning Zhao, Abdullah S.N. Al-Arifi, Taieb Aouak, Zeid Abdullah Al-Othman, Fukui Xiao, Yuhan Sun, *Journal of Molecular Catalysis A: Chemical*, *In Press, Corrected Proof*, Available online 15 September 2009
4. [Grafted ionic liquid: Catalyst for solventless cycloaddition of carbon dioxide and propylene oxide](#) Xuelan Zhang, Dengfeng Wang, Ning Zhao, Abdullah S.N. Al-Arifi, Taieb Aouak, Zeid Abdullah Al-Othman, Wei Wei, Yuhan Sun, *Catalysis Communications*, Volume 11, Issue 1, 2009, 43-46
5. [Microwave Synthesis of Bimetallic Nanoalloys and CO Oxidation on Ceria-Supported Nanoalloys](#) Victor Abdelsayed, Ahlam Aljarash, M. Samy El-Shall, Zeid A. AlOthman and Ahmed H. Alghamdi, *Chem. Mater.*, **2009**, 21 (13), pp 2825–2834
6. [Oxidative Coupling for the Spectrophotometric Determination of Certain Cephalosporins and Acetaminophen in Drug Formulations](#) Zeid A. AlOthman and Mohamed A. Abdalla, *In Press, Accepted Manuscript*, Arabian Journal of Chemistry, , V.2., No.4, pp..., 2009.
7. [Spectrofluorimetric determination of fexofenadine hydrochloride in pharmaceutical preparation using silver nanoparticles](#) Zeid A. AlOthman, Nausheen Bukhari, Sajjad Haider, Saikh Mohammad Wabaidur, and Abdulrahman Abdullah Al-Warthan, *In Press, Accepted Manuscript*, Arabian Journal of Chemistry, , V.2., No.4, pp..., 2009.
8. [Differential pulse voltammetry method for simultaneous determination of dopamine and acetaminophen using multiwall carbon nanotube modified glassy carbon electrode](#) Zeid A. AlOthman and Saikh M. Wabaidur *In process*
9. [Simultaneous determination of levodopa and carbidopa in pharmaceutical tablets using functionalized multiwall carbon nanotubes modified glassy carbon electrode](#) Zeid A. AlOthman and Saikh M. Wabaidur *In process*
10. [Miscibility study of poly\(vinyl chloride\)/poly\(methyl methacrylate-co-4-vinylpyridine\) by viscosimetry, differential scanning calorimetry and Fourier transform infrared](#) Mouci Fethia Benmerad, Said Djadoun, Zeid A. AlOthman and Taieb Aouak, *Journal of Applied Polymer Science*, *In process*.
11. [Kinetic Analysis for Non-isothermal Decomposition of Unirradiated and  \$\gamma\$ -irradiated Indium Acetylacetonate](#) R.M. Mahfouz, SH.A. Al-Ahmari, A.M. Al-Fawaz, Z. A. AlOthman, I. Kh. Warad and M. R. H Siddiqui *In process*
12. [Kinetic Studies for Non-Isothermal Decomposition of Un-Irradiated and  \$\gamma\$ -Irradiated Gallium Acetylacetonate](#) Kh. M. Al-khamis, Z. A. AlOthman and R. M. Mahfouz *In process*

## UNIVERSITY AND COMMUNITY SERVICES

### The university:

- The supervisor of the Nanomaterials and Nanotechnology training course, organized in cooperation between King Abdullah Institute for NANO technology

- and Saudi Chemical Society, chemistry department, King Saudi University, Riyadh, May 18-20, 2008.
- Member of the workshop committee of the strategic planning project for King Saud University, Riyadh, Kingdom of Saudi Arabia, Mar. 16, 2008.
  - Member of King Saud University's delegates to discuss the collaboration potential with the top French universities and institutes, Paris, France, Feb. 25-29, 2008.
  - Head of the King Saud University's delegates to the 5<sup>th</sup> Forum for Korea-Middle East Cooperation, Seoul, South Korea, Dec. 6-7, 2007.
  - Member of the organizing committee of the 7<sup>th</sup> Saudi Engineering Conference King Saud University, Riyadh, Kingdom of Saudi Arabia, Dec. 2-5, 2007.
  - Member of the organizing committee of the Nano research workshop (Nano Research at Universities: The Road toward Fulfilling the Vision of Custodian of the Two Holy Mosques), King Saud University, Riyadh, Kingdom of Saudi Arabia, 28-29/10/2007.
  - Head of the preparatory committee for the King Abdullah prize for research in the Arab countries, King Saudi University, June 30, 2007.

#### **The college of science:**

- Member of the college of science committee to follow up the signed contracts between King Saud University and the international institutes and universities, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia, Jan. 30, 2008.
- Member of the Strategic plan committee of the college of Science, King Saudi University, Oct.2, 2007 and for one year.
- Member of Organizing Committee for the Third Saudi International Conference for Science (New Trends for Science and it's Applications), King Saud University, Riyadh, Kingdom of Saudi Arabia, Mar. 10-13, 2007.

#### **The chemistry department:**

- Member of the plan study committee of the new B.Sc. Academic Program for department of chemistry after incorporate the preparatory year, chemistry department, King Saud University, April 28, 2008.
- Head of the Strategic plan committee of the chemistry department, King Saudi University, Nov. 10, 2007 and for one year.
- Member of the plan study committee of the new B.Sc. Academic Program for department of chemistry, King Saud University, Sep.29, 2007.
- Member of the chemistry department committee to study faculty's rights and demands, chemistry department, King Saud University, Riyadh, June 12, 2007.
- Member of the chemistry department head's Prize committee, chemistry department, King Saud University, May 29, 2007.
- Co-supervisor for Master degree thesis, Department of Chemistry, King Saud University.

- Organized various scientific seminars, lectures and meeting for chemistry department and Saudi Chemical Society.

#### **The community services:**

- The supervisor of the Nanomaterials and Nanotechnology training course, organized in collaboration between King Abdullah Institute for Nanotechnology and Saudi Chemical Society.
- The supervisor of the training course on Theoretical and Practical Training in High Performance Liquid Chromatography, HPLC, Saudi Chemical Society.
- The supervisor of the safety in the laboratory training course, Saudi Chemical Society.
- Member of [Qiyas](#) committee at [King Fahd Security College](#) in Riyadh, Kingdom of Saudi Arabia, July 12, 2007.
- Member of the administrative Council for Saudi Chemical Society.
- Member of [Qiyas](#) committee at community college in Riyadh, Kingdom of Saudi Arabia, Mar. 22, 2007 till now.
- Courses in informing community about the chemical pollutants.
- Coordinator of the new Saudi students, International Students and Scholars (ISS), Oklahoma State University, Stillwater, OK, 2005-2006.
- The president of the Saudi Student Club, Stillwater, Oklahoma, USA 2004-2006.

#### **ACADEMIC AND RESEARCH INTERESTS**

##### **Education:**

- Development of the contents.
- Use of the new technology on teaching
- E-learning
- Distance learning

##### **Research:**

- Application of chromatography separation methods in environmental, chemical and pharmaceutical study.
- Study the environmental pollutants and their safe removal
- Preparation of inorganic materials to prevent the environment
- Synthesis of new silica based materials for separation (Packing materials for chromatographic columns)
- Development and enhance polymeric materials in order to use them for chromatographic columns
- Development of new polymer membrane and use them in pervaporation for chemical separation and purification.
- Nanomaterials for separation
- Nanotechnology to improve s gas sensors.
- Nanocatalyst and catalyst for petrochemical industry.

## Running Research Projects

### A) International research program funded by KSU.

1. Mesoporous nanoreactor for the utilization of CO<sub>2</sub> to produce organic carbonate with Institute of Coal Chemistry; Chinese Academy of Science.
2. Nanocatalysis and nanoparticle catalysts in porous materials with chemistry department at Virginia Commonwealth University, USA.
3. Mesoporous nanoreactor for purification of linear C<sub>6</sub>~C<sub>8</sub> α-olefins from their mixtures with Institute of Coal Chemistry; Chinese Academy of Science.

### B) Local research program funded by KSU.

1. Polymer membrane for Chemical separation using pervaporation technology.
2. Simultaneous determination of Dihydroergocristine, Clopamide and Respine in Brinerdin Drug using High Performance Liquid Chromatography.
3. Preparation of capillary columns for chromatographic analysis.

## TEACHING EXPERIENCE

- **Lecturer:**
  - o Qualitative Analysis (CHEM 254) course for sophomore level students
  - o Chemical Separation Methods (CHEM 354) course for junior level students
- **Lab management:** liquid and solid waste management
- **Lab instructor:** General chemistry lab (two semesters)

## TECHNICAL SKILLS

- Scanning Electron Microscope (SEM)
- Transmission Electron Microscope (TEM)
- Confocal Microscope
- Atomic Absorption Spectrometry (AAS)
- X-ray Diffraction (XRD)
- Ultraviolet Visible spectroscopic (UV-Vis)
- High Performance Liquid Chromatography (HPLC)
- Inductively Coupled Plasma (ICP)
- Fourier Transform Infrared spectroscopy (FT-IR)
- Thermogravimetric Analysis (TGA)
- Surface Area Analyzer (BET)
- Particle size analyzer (PSA)