

BIOGRAPHICAL INFORMATION AND PUBLICATIONS

I. PERSONAL AND CONTACT DATA

Name : *Yahia Abubakr Saleh Alhamed*

Date and place of Birth : 18th. November 1957, Almadinah, Saudi Arabia

Nationality : Saudi Arabian

Language : Arabic/English

Marital Status : Married

Business Address : **C hairman of the Chemical and Materials Engineering Department (Building 45, Room 201)**
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II. EDUCATION

1. **B.Sc. degree in Chemical Engineering, 1981**
King Saud University, Riyadh, Saudi Arabia
2. **M A Sc Degree in Chemical Engineering, 1985**
University of Waterloo, Waterloo, Ontario, Canada
3. **Ph.D. Degree in Chemical Engineering, 1990**
University of Waterloo, Waterloo, Ontario, Canada

III. ACADEMIC POSITIONS

1. **Research Assistant:**
King Abdulaziz University, 1981-1982
2. **Assistant Professor**
King Abdulaziz University 1990 – May 1999
- 3.. **Associate Professor**
King Abdulaziz University May 1999 – to Date

IV. PROFESSIONAL EXPERIENCE

A- Teaching

1. Chemical Reaction Engineering
2. Chemical Engineering Thermodynamics
3. Principles of Chemical Engineering Calculations
4. Catalysis
5. Advanced Chemical Reaction Engineering
6. Petrochemical Technology

B-Funded Research

1. Al-Zahrani, A. A. and **Alhamed, Y. A. S.**, "Regeneration and Utilization of Spent Bleaching Clay from Saudi Edible Oil Refining Industry; Phase I: Boil-off Method", First Report Presented to King Abdulaziz City for Science and Technology, 1994.
2. Al-Zahrani, A. A. and **Alhamed, Y. A. S.**, "Regeneration and Utilization of Spent Bleaching Clay from Saudi Edible Oil Refining Industry; Phase II: Solvent Extraction and Acid Treatment", Second Report Presented to King Abdulaziz City for Science and Technology, 1995.
3. Al-Zahrani, A. A. and **Alhamed, Y. A. S.**, "Regeneration and Utilization of Spent Bleaching Clay from Saudi Edible Oil Refining Industry; Phase III: Calcination then Acid Treatment", Third Report Presented to King Abdulaziz City for Science and Technology, 1995.
4. Al-Zahrani, A. A. and **Alhamed, Y. A. S.**, "Regeneration and Utilization of Spent Bleaching Clay from Saudi Edible Oil Refining Industry", Final Report Presented to King Abdulaziz City for Science and Technology, 1996.
5. **Yahia Alhamed** and M. I. Abdulsalam, Activated Carbon from Plam Tree Wastes: (Phase I: Preparation). Project number 109/422 funded by the acientific research council, King Abdulaziz University.
6. **Yahia Alhamed**, Y.A.S., Al-Zahrani, A.A. and Daous, M.A., "Amoxidation of Propane to Acrylonitrile, Second Report Presented to SABIC, 1998.
7. Yahia Alhamed, Al-Zahrani, A.A. and Daous, M.A., "Amoxidation of Propane to Acrylonitrile", Final Report Presented to SABIC, 1999.
8. **Yahia Alhamed** , A. A. AlZahrani and M. Daous, Oxidative dehydrogenation of ethylebenzene to styrene. A research project sponsored by Saudi Basic Industries Company (SABIC), Riyadh, Saudi Arabia. Phase I
9. **Yahia Alhamed** , A. A. AlZahrani and M. Daous , Oxidative dehydrogenation of ethylebenzene to styrene. A research project sponsored by Saudi Basic Industries Company (SABIC), Riyadh, Saudi Arabia. Phase II
10. **Yahia Alhamed** , A. A. AlZahrani and M. Daous , Oxidative dehydrogenation of ethylebenzene to styrene. A research project sponsored by Saudi Basic Industries Company (SABIC), Riyadh, Saudi Arabia. Phase III

11. **Yahia Alhamed and Shaaban Nosier**, Removal of Phenol by granual Activated Carbon dates stonrs: Project number 115/426 funded by the scientific research council, King Abdulaziz University.
12. Hisham Bamufleh and **Yahia A Alhamed** , Desufurization of a model diesel fuel using greanular activated carbon from dates stones. Project number 105/427 funded by the scientific research council, King Abdulaziz University.
13. A.A. Alzahrani, M. H. Abdulmajeed and **Yahia Alhamed**, Activation of Saudi Clays for use in Edible Oil Bleaching by a Non-Polluting Technique using Ammonium Chloride Solutions and Microwave irradiation. Funded by KACST, Project No. AR 15-25, 1427
14. H. Bamufleh, **Yahia Alhamed** and M. Daous, Utilization of Date-Palm Tree Wastes for Furfural Production, A research project funded by KACST, Project number AR107-26 (1428).
15. Jaber Idris, A. A. AlZahrani and **Yahia Alhamed**, Wastes Water Treatment by using Green Microalgae A research project funded by KACST, Project number .

C- Committees Memberships

1. Coordinator of academic affairs committee at the Chemical and Materials Engineering Department. King AbdulazizUniversity, 1992 - 1998
2. Member of the social committee for the Fourth Saudi Engineering Conference., 1996
3. Chairman of the committe of SABIC Chair in catalysis at King Abdulaziz University. 2005 to date
4. Chairman of curriculum committe at the Chemical and Materials Engineering Department. King AbdulazizUniversity.
5. Member of the editorial board of Journal of King Abdulaziz Uinversity: Engineering Sciences, 2006 to 2008.
6. Chairman Chemical and Materials Engineering Departmentsep 2007 to date
7. Member of the scientific research committee at KAU, 2008 to date.
8. Member of the International Advisory Board of the 10th International Symposium on Heterogeneous Catalysis, 23-27 August 2008, Varna, Bulgaria.

V. PROFESSIONAL MEMBERSHIPS

1. **Member of the Saudi Chemical Society**

VI LANGUAGES

Arabic/English

VII. RESEARCH INTERESTS

1. Catalysis and kinetics of heterogeneous reactions
2. Ammoxidation, partial oxidation and oxidative dehydrogenation of hydrocarbons over solid catalysts
3. Adsorption and adsorption processes
4. Pollution control and recycling
5. Activated carbon production and characterization

VIII. PARTICIPATION IN SCIENTIFIC MEETINGS:

- 7th International conference and exhibition on chemistry and industry. March 26 – 28, 2007, Manama, Bahrain
- EUROPACAT VII Conference, 26-31 August 2006, Sofia, Bulgaria
- EUROPACAT VIII Conference, 26-31 August 2007, Tutku, Finland .
- Scientific seminar “Catalytic Processes in Petrochemistry”, King Abdulaziz University, Jeddah, Saudi Arabia, 28-30 January 2008
- International Conference on Nanotechnology: Opportunities and Challenges, 17-19.06.2008, Jeddah, Saudi Arabia
- International Conference: Nanocatalysis: Fundamental and Applications, 10-11.07.2008 Dalian, China
- 14th International Congress on Catalysis, 13-18.07.2008, Seoul, Korea
- Tenth International Symposium on Heterogeneous Catalysis, 23-27 August 2008, Varna, Bulgaria

IX. REVIEWERS FOR SCIENTIFIC JOURNALS

1. Journal of Analytical and Applied Pyrolysis
2. Journal of King Abdulaziz University: Engineering Sciences
3. Bulgarian Chemical Communications

X. PUBLICATIONS

1. **Y. A. A. Saleh**, “ *Steady-State and periodic Operation Studies of the Partial Oxidation of Propylene*” , **Ph. D. Thesis, University of Waterloo, Waterloo, Ontario, Canada, 1990.**
2. **Yahia A. Saleh Alhamed**, “ Gas Diffusion in Liquid Filled Porous Media” MASC, Thesis, University of Waterloo, Waterloo, Ontario, Canada, 1985.
3. **Yahia A. Saleh Alhamed**, R. R. Hudgins and P. L. Silveston , "*Role of Water in the Partial Oxidation of Propene*", **Studies in Surface science and catalysis. New Frontiers in Catalysis**, Vol. 75, 2019-2022 (1993), Proceeding of the 10th International Congress on Catalysis, Budapest, Hungary, July 19-24, **(1992).**
4. **Yahia A. Saleh Alhamed**, R. R. Hudgins and P. L. Silveston, "*Periodic Operation Studies of the Partial Oxidation of Propylene to Acrolein and Acrylic acid*", **Chem. Eng. Sci.**47, 9-11, 2885-2890 **(1992).**
5. Mahmoud M. N. Wali and **Yahia A. saleh Alhamed**, "*Simulation of Batch, Mixed and Plug Flow Reactors for Homogeneous Reactions*", **Al-Azhar Engineering Third International Conference**, Dec. 18- 21, **1993**, Cairo Egypt, Vol. 7, 5 64-673.
6. **Yahia A. Saleh Alhamed** and M. I. Abdulsalam, "*Activated Carbon from Palm Tree Branches*", **Fourth Saudi Engineering Conference**, 5-8 Nov. **1995**, King Abdulaziz University, Jeddah, Saudi Arabia, Vol. 5, 51-57.
7. **Yahia A. Saleh Alhamed**, R. R. Hudgins and P. L. Silveston, "*Investigations of Catalytic Mechanisms for Selective Propene Oxidation in the Presence of Steam*", **Applied Catalysis A: General**, 127, 177-199. **(1995).**
8. A. A. Al-Zhrani and **Y. A. Alhamed**, "*Regeneration of Spent Bleaching Clay and Oil Recovery by Solvent Extraction and Acid Treatment*", **Eleventh International Conference in Solid Waste Technology and Management**, Nov. 12-15, **1995**, Philadelphia, USA.
9. A. A. Al-zahrani and **Y. A Alhamed**, “*Regeneration of Spent Bleaching Clay by Acid Treatment* “, **Indian Chem. Engr., Section A**, Vol. 38, No.3, July-Sep., 71-75 **(1996).**
10. A. A. Al-Zhrani and **Y. A. Alhamed**, "*Regeneration of Spent Bleaching Clay and Oil Recovery by Boil-off Method and Acid Treatment*" **Middle East FORUM, Issue 1, 17-28, 1996.**
11. Al-zahrani, A. A. and **Alhamed, Y. A. S.**, “*Regeneration and Utilization of Spent Bleaching Clay from Saudi Edible Oil Refining Industry*”, Final report, submitted to **King Abdulaziz City for Science and Technology**. 1996.

12. **Yahia A. Saleh Alhamed** and A. A. Al-Zahrani, “*Techno-Economical Evaluation of Oil Recovery and Regeneration of Spent Bleaching Clay*”, **Journal of King Abdulaziz University: Engineering Sciences (JKAU: Eng.Sci.)**, Vol. 11, no. 2, pp 115 - 126 (1999).
13. **Y. A. Saleh Alhamed** , R. R. Hudgins, P. L. Silveston *Role of Water Vapor in the Partial Oxidation of Propene*, **Journal of Catalysis**, Vol. 161, No. 1, Jun 1996, pp. 430-440.
14. **Yahia A. Saleh Alhamed** and A. A. Al-zahrani, “*A Model for the Extraction of Oil from Spent Bleaching Clays*”. **Arabian Journal for Science and Engineering** , Vol. 23, No.2B, 165-176 (1998).
15. **Y. A. S. Alhamed**, A.A. Al-Zahrani and M. A. Daous, Ammoxidation of Propane to Acrylonitrile, final report for a *research project sponsored by Saudi Basic Industries Company (SABIC), Riyadh, Saudi Arabia, 1999*
16. **A. A. A-zahrani and Yahia A. S. Alhamed** , *Oil Removal from Spent Bleaching clay by Solvent Extraction*, **J. Environ. Sci. Health, Part A: Toxic/Hazardous Substances & Environmental Engineering**, 35(9), 1577-1590 (2000).
17. **Y. A. S. Alhamed**, M. A. Daous, and A.A. Al-Zahrani, Ammoxidation of propane over V/Sb/P/W based catalyst: effect of potassium addition, Presented at 17th North American Catalysis Society Meeting, June 3 – 8, 2001, Toronto, Ontario, Canada.
18. **Yahia Alhamed** and M. I. Abdulsalam, Activated Carbon from Plam Tree Wastes: (Phase I: Preparation). Final report Project number 109/422 funded by the acientific research council, King Abdulaziz University.2005.
19. **Y. A. Alhamed**, and A.A. Alzharani, Regeneration of spent bleaching clay used in edible oil refining in Saudi Arabia”, The 6th Saudi Engineering Conference, King 14 – 17 December 2002, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia. Proceedings, Volume 2, Chemical engineering, p 441 – 449.
20. **Y. A. Alhamed**, “Preparation and charactrerization of activated carbon from dates stones”, The 6th Saudi Engineering Conference, King 14 – 17 December 2002, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia. Proceedings, Volume 2, Chemical engineering, p 461 – 472..
21. S. A. Nosier, **Y. A. Alhamed**, and H. A. Alturaif, Enhancement of copper cementation using ceramic suspended solids under single phase flow, Separation and purification technology, 52, 454-460 (2007).
22. **Yahia A. Alhamed**, Effect of Preparation Conditions on the Characteristics of Activated Carbon Produced by ZnCl₂ Activation. Alexandria Engineering Journal, Volume 45, No 6, 739 – 756, 2006.

23. **Yahia A. Alhamed** Activated Carbon from Dates' Stone by ZnCl₂ Activation, Journal of King Abdulaziz University: Engineering Sciences, Volume 17, No 2, 75-98, 2006.
24. **Yahia A. Alhamed**, Absorption of Carbon Dioxide by a Suspension of Activated Carbon in Aqueous Amine Solutions. Presented in the 7th International conference and exhibition on chemistry and industry. March 26 – 28, 2007, Manama, Bahrain.
25. **Yahia Alhamed** and Shaaban Nosier, Phenol Removal using Granular Activated Carbon from Dates' Stones. Final report Project number 1\°/42\ funded by the scientific research council, King Abdulaziz University.200\.
26. S. A. Nosier, **Y. A. Alhamed**, A. A. Bakry, and I. S. Mansour, Forced Convection Solid-Liquid Mass Transfer at a Surface of Tube Bundles under Single Phase Flow Chem. Biochem. Eng. Q. 21 (3) 213–218 (2007).
27. **Y. A. Alhamed**, Phenol removal using granular activated carbon from dates' stones, Bulgarian Chemical Communications, Volume 41, number 1(pp. 26 – 35), 2008
28. **Y. A. Alhamed**, Phenol removal using granular activated carbon from date's stones by H₃PO₄ activation, Journal of Environmental Protection and Ecology, accepted for publication, Vol 9, 2008
29. Ahmed Arafat and Yahia Alhamed, Catalytic activity of mesoporous catalysts in Freide;-Crafts Benzylation of benzene, Journal of Porous Material, Accepted: 26 June 2008.
30. Yahia A. Alhamed and Hisham S. Bamufleh, Sulfur removal from model diesel fuel using granular activated carbon from dates' stones activated by ZnCl₂, Fuel 88 (2009) 87–94.