

Ahmad Sakhrieh

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Born on June 30th, 1972

Married, 1 daughter

Jordanian

The University of Jordan
Faculty of Engineering and Technology
Mechanical Engineering Department
Amman, 11942, Jordan

Experience

- **Research assistance**

Jordan University, September, 1995-September, 1996.

- **Teaching assistance**

Jordan University, September, 1996-July, 1997.

- **Part-time Lecturer**

Jordan University, September, 1997-July, 1998.

- **Full-time Lecturer**

Jordan University, September, 1998-April, 2002.

- **Part-time Lecturer**

The Hashemite University, September, 2006-February, 2007.

- **Full time Lecturer**

Jordan Academy for Maritime Studies, October, 2006-September, 2007.

- **Full time lecturer**

The Hashemite University, September, 2007-January, 2009.

- **Assistant Professor**

The University of Jordan, February, 2009-Now.

I have taught the following courses; Thermodynamics, Fluid Mechanics, Engineering Drawing and Descriptive Geometry, HVAC (Heating Ventilating and Air Conditioning), Measurements, Computer Aided Design, Numerical Analysis, Internal Combustion Engines, Turbomachinery, Built Environment and computer Applications. Also I educated the following training courses; Auto CAD, 3DS4, Internet and Web Publishing, 3DMAX and SPSS.

Education

- **High School**, Mo'awiah Ben Abi Sofian, Jordan, 1990.
- **B.Sc. in Mechanical Engineering**, Jordan University, Jordan, 1995.
Graduation Project: Solar Bonds.
- **M.Sc. in Mechanical Engineering**, Jordan University, Jordan, 1997.
Thesis: Inhibition of Dust Explosion.
- **Ph.D. in Mechanical Engineering (Combustion)**, Lehrstuhl Für Technische Thermodynamik Friedrich-Alexander University, Erlangen-Nürnberg, Germany, 2006.
Thesis: Reduction of Pollutant Emissions from High Pressure Flames using an Electric Field.

Other points

- B.Sc. Average grade (81%).
- M.Sc Average grade (3.71).
- DAAD full scholarship holder.
- DFG (German Research Foundation) research grant for three months, 2008 and 2009 and 2010.
- Member of the organizing committee of the second Jordanian international conference for mechanical engineering, Amman, Jordan, 1997.
- Member of the organizing committee of the international conference for energy systems, Amman, Jordan, 2000.
- Member of the organizing committee for the 2nd and 3rd Global Conference on Renewable Energy Approaches for Desert Regions, Amman 2009 and 2011.
- Member in Jordan engineering association.
- Member in youth and childhood cultural association.

Publications

1. A. Sakhrieh, G. Lins, F. Dinkelacker, T. Hammer, A. Leipertz, D. W. Branston, *Pressure influence on electric field control of premixed turbulent flames*, Trends in numerical and physical modeling for turbulent processes in gas turbine combustors, Heidelberg, Germany, April 2004.
2. A. Sakhrieh, G. Lins, F. Dinkelacker, T. Hammer, A. Leipertz, D. W. Branston, *Electric field control of a premixed turbulent flame at high pressure*, 30th International symposium on combustion, Poster session, July 2004.
3. T. Hammer, G. Lins, A. Sakhrieh, F. Dinkelacker, D. W. Branston, A. Leipertz, *Electric Field Control of Premixed Methane-Air Combustion at High Pressure*, 5th Electro hydrodynamics International Workshop, Poitiers (France), August 30-31, 2004.

4. A. Sakhrieh, G. Lins, F. Dinkelacker, T. Hammer, A. Leipertz, D. W. Branston, *Electric field control of a premixed turbulent flame at high pressure*, Book of abstracts of the European Combustion meeting 2005, Louvain-la-Neuve, Belgium, April 3-6, 2005.
5. A. Sakhrieh, G. Lins, F. Dinkelacker, T. Hammer, A. Leipertz, D. W. Branston, *Influence of the Electric Field on Premixed Turbulent Flames at Elevated Pressure*, First middle east international conference on advances in civil, mechanical and materials engineering, Amman, Jordan, May 2005.
6. R. Al_Tarawneh, A. Sakhrieh, *Neural Network application in the study of Solid Fuel Dust Explosion*, First middle east international conference on advances in civil, mechanical and materials engineering, Amman, Jordan, May 2005.
7. T. Hammer, G. Lins, D. W. Branston, F. Dinkelacker, A. Sakhrieh, A. Leipertz, *Electro-hydrodynamic control of premixed turbulent methane flames at pressures above 1 atm*, Proceedings of ASME Turbo Expo 2005 Power for Land, Sea, and Air, Nevada, USA, June 6-9, 2005.
8. A. Sakhrieh, G. Lins, F. Dinkelacker, T. Hammer, A. Leipertz, D. W. Branston, *The Influence of Pressure on the Control of Premixed Turbulent Flames Using an Electric Field*, Combustion and flame, 143, 313-322, 2005.
9. M. A. Hamdan, A. Sakhrieh, *Dust explosion of oil shale and olive cake solid fuels: a comparison study*, International Journal of Energy Research, 29, 871-878, August 2005.
10. G. Lins, F. Dinkelacker, T. Hammer, A. Sakhrieh, L. Sun, *Verbrennungssteuerung mittels elektrischer Felder*, Workshop Plasmatechnik, 22.-23. Juni 2006, Ilmenau, Hrsg. B. Dzur, pp.67-74.
11. F. Beyrau, A. Sakhrieh, F. Altendorfner, A. Leipertz, T. Hammer, G. Lins und F. Dinkelacker *Einsatz von elektrischen Feldern zur Stabilisierung von Hochdruckflammen* VDI-Thermodynamik-Kolloquium, Dortmund, October 2006, Tagungsband TD-8
12. A. Sakhrieh, F. Altendorfner, F. Beyrau, A. Leipertz, F. Dinkelacker, T. Hammer, G. Lins and D. W. Branston *NO_x Reduction in Turbulent Methane-Air Flames Stabilized by a DC Electric Field at High Pressure* 31st International Symposium on Combustion, Heidelberg, Germany, August 2006.
13. A. Sakhrieh, F. Altendorfner, F. Beyrau, A. Leipertz, F. Dinkelacker, T. Hammer, G. Lins and D. W. Branston *The Effect of Electric Fields on CO Emission of a Premixed Flame at Elevated Pressure: Optimization of Field Geometry* 31st International Symposium on Combustion, Heidelberg, Germany, August 2006
14. F. Altendorfner, A. Sakhrieh, F. Beyrau, A. Leipertz, F. Dinkelacker, G. Lins, T. Hammer & D. W. Branston. *Electric Field Effects on Emissions and Flame Stability with Optimized Electrical Field Geometry*, Book of abstracts of the European Combustion meeting 2007, Mediterranean Agronomic Institute of Chania Crete, Greece, April 11-13.
15. A Sakhrieh, RH Fouad, JA Yamin, *Experimental Study of Using Emulsified Diesel Fuel on the Performance and Pollutants Emitted from Four Stroke Water Cooled Diesel Engine*, POWER CONTROL AND OPTIMIZATION: Proceedings

- of the Second Global Conference on Power Control and Optimization, Bali, Indonesia, 1-3 June, 2009.
16. I. Al-Hinti, M. Samhouri, A. Al-Ghandoor, A. Sakhrieh, The effect of boost pressure on the performance characteristics of a diesel engine: a neuro-fuzzy approach, *Applied Energy*, Volume 86, Issue 1, January 2009, Pages 113-121.
 17. A. Sakhrieh A., E. Abu-Nada, I. Al-Hinti, A. Al-Ghandoor, B. Akash Computational thermodynamic analysis of compression ignition engine: *International Communications in Heat and Mass Transfer* 37 (2010) 299–303.
 18. A. Sakhrieh, M. A. Hamdan. Inhibition of solid fuel dust explosion by burning mixtures of coarse and fine particles. *Jordan Journal of industrial and mechanical engineering*, Volume 4, Number 2, March. 2010, 300 - 303.
 19. A. Al-ahmar, J. Yamin, A. Sakhrieh, M. A. Hamdan. Engine performance using emulsified diesel fuel, *energy conversion and management*, Volume 51, Issue 8, August 2010, Pages 1708-1713.
 20. R. Haj Khalil, A. Sakhrieh, M.A.Hamdan, J. Asfar, Effect of pressure and inlet velocity on the adiabatic flame temperature of a methane-air flame, *Jordan Journal of industrial and mechanical engineering*, Volume 4, Number 1, Jan. 2010, Pages 21-28.
 21. A. Abu Raed, A. Sakhrieh, Green Building for low income people, international engineering conference on hot arid regions, may 1-2, 2010, Alahsa, Saudi Arabia.
 22. I. Al-Hinti, A. Al-Ghandoor, A. Sakhrieh, B. Akash, E. Abu-Nada, A comparative Analysis of Energy Indicators and CO₂ Emissions in 15 Arab Countries. *Int. J. of Environment and Waste Management*, accepted for publication.
 23. Al-Ghandoor A., Al-Hinti I., Sakhrieh A, Abu-Nada E, Akash B. Examining the electricity use in the Jordanian industrial sector (1998-2005) with the help of decomposition analysis. Journal paper submitted for possible publication to *Energy Policy*.
 24. Al-Hinti I., Al-Ghandoor A., Akash B., Abu-Nada E, Sakhrieh A. Comparison of energy and emissions indicators for 15 Arab countries. Journal paper submitted for possible publication to *Energy Policy*.
 25. Y. Abdullat , A. Sakhrieh, M. Hamdan, Enhancement of Thermal Energy Storage Using Phase Change Material under Jordanian Climate, Fourth Global Conference on Power Control and Optimization, Kuching, Malaysia, Accepted.

Funded Projects

Utilization of Oil Shale as a Source of Energy in Jordan; Direct Burning and Shale Oil Extraction Phase I, Scientific Research Fund, 235,500 JD.

Conferences

- First international workshop on trends in numerical and physical modeling of turbulent processes in gas turbine combustors, 14-15 November, 2002, Darmstadt, Germany.

- Kurzlehrgang, Grundlagen und Moderne Anwendungen der Verbrennungstechnik, 16-19 February 2004, Universität Erlangen-Nürnberg, Germany.
- Second international workshop on trends in numerical and physical modeling of turbulent processes in gas turbine combustors (and automotive engines), 1-2 April 2004, Heidelberg, Germany.
- European Combustion Meeting "ECM2005", 3-6 April 2005, Louvain-la-Neuve, Belgium.
- First Middle East international conference on advances in civil, mechanical and materials engineering, 10-13 May, 2005, Amman, Jordan.
- Second Global Conference on Power Control and Optimization PCO 2009, June 1-3, 2009, Bali, Indonesia.
- Global Conference on Renewables and Energy Efficiency for DEsert Regions 2009, March 31st -April 2nd, 2009, Amman - Jordan

Computer

Solid knowledge in Windows and Microsoft applications, Engineering Software, Graphic and Multimedia Applications, and Computer Hardware.

References

- Prof. Dr.-Ing. Alfred Leipertz, Lehrstuhl für technische Thermodynamik, Erlangen-Nürnberg University, Germany.
- Prof. Mohamed Hamdan, Mechanical Engineering Department, Jordan University, Amman, Jordan.