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## **Experience**

### **Director, King Abdullah II Fund For Development "Office for Career Counseling"**

Deanship of Students Affairs      University of Jordan      2006-present

Enhance chances of the university graduates to get jobs and link the student community with private sector establishments and civil society institutions, through providing the students with professional advice and technical consultation in communication skills and job search.

### **Manager, Faculty for Factory National Program (FFF) .**      2008 –present

Developing Practical model for cooperation between industry and universities to help participants (faculty members) from various Jordanian universities with different specialties and the Jordanian industrial companies from different sectors, creation of a genuine partnership between them. Increasing the contribution of the participants in the preparation of the research projects and practical implementation in the Jordanian industrial companies according to their actual needs.

### **Director, Outreach Consultation Unit**

Faculty of Engineering and Technology      University of Jordan      Sep 2005-Sep 2008

Participate in enhancing industrial development in the country by solving the problems and upgrading the performance of industrial enterprises through the utilization of technical and managerial Engineering concepts and applications, through continuing education, training and consultancy services.

### **Founder, Materials Engineering and Product Design & Development Incubator**

University of Jordan      Amman- Jordan      2007

Providing adequate and safe environment for creators and owners of pioneering ideas of students, engineers, professors. Applying a successful lasting projects through the development of exporting capabilities and create new sustainable job opportunities. All of that lead to attract major companies and investors through patents, inventions and researches in the areas of high technology with economic world importance.

### **National Steering Committee member**

*Ministry of Higher Education and Scientific research-      Jordan      2007 to 2009.*

Project Title: "**Bridging the Gap between Higher Education& Labor Market**", supported by UNDP; United Nation for Development Projects, and Ministry of Higher Education and Scientific research- Jordan

### **Assistant Professor**

University of Jordan      Amman- Jordan      2003-present

Teaching Manufacturing Engineering Processes and Materials Sciences & Industrial Engineering courses.

### **Consultant**

Faculty for Factory Program (FFF) .The FFF Program is aiming at promoting an actual form of collaboration between the academia and the industry. It anticipates providing a structural help to assist Engineering faculty members from one side and the industry from the other side. (Improving Industrial Quality & Productivity in Manufacturing of Jordan Ceramic Industries Co 2003) and Control the Defection / Waviness to Minimize Waste at Steel Building Co. Madaba-Jordan 2006)

**TECHNICAL DIAGNOSTIC** at Abdin Industrial Co for Kitchen Equipment -Shop Fittings and Accessories through JUMP program (2006)

“**KAIZEN Activity**” Project is aiming to providing the help for “Jordan New Cable Company in MafraK” development of production managements “KAIZEN “ in some issues like production system, productivity analysis, and waste reduction. (2007).

### **Community Services**

**Al Huseineiyeh Community need Assessment Program**, established by the University of Jordan with main objective of assessing the community’s needs of Al-Hussienyeh area of Maan, ( South of Jordan) to enhance the development in this

### **Researcher**

Kyoto University                      Kyoto, Japan                      2002

My research work was focused on the biometallic materials to apply in medical and dental applications and other industrial applications. Evaluation of the corrosion behavior, surface modification techniques, and heat treatment. The investigations were using of (SEM), element mapping & energy dispersive (EDX). X ray diffraction (XRD) techniques and analytical methods including grazing-incidence X-ray diffraction (GIXD).

### **Lecturer**

The University of Jordan      Amman, Jordan                      1996- 1998

Industrial Engineering Department, taught courses in materials science, strength of materials, and have also managed and run different Lab sections.

### **Lab. Engineer and Teaching Assistant**

The University of Jordan      Amman, Jordan                      1992- 1996

I was responsible for mechanical vibrations lab. & Instructing strength of materials, and fluid mechanics labs and Measurement labs.

### **Mechanical Engineer**

Ministry of Energy and Natural Resources, Amman, Jordan      1991- 1992

I was in charge in the updating and renewing energy resources program in Jordan.

## Education

**PhD** in Mechanical Engineering.

**Kyoto University Kyoto, Japan** April 1998-March2002

Thesis Titled “Biomedical Engineering of Magnesium Behaviors in Simulated body Fluids”.

**M.Sc** in Industrial Engineering/ Manufacturing and Design.

**The University of Jordan, Amman, Jordan** 1993- 1996

Thesis Titled “Effect of Welding Parameters on Corrosion Resistance of Stainless Steels”.

**B.Sc** in Mechanical Engineering. **University of Engineering and Technology** Lahore, Pakistan  
1986-1991

## Affiliations

- ◇ Board member and founder of Jordanian Human Resources Management Association (JHRMA).
- ◇ Member of The Japan Institute of Metals (JIM).
- ◇ Member of The American Welding Society (AWS).
- ◇ Member of The National Association of Corrosion Engineers (NACE).
- ◇ Member of The Jordanian Engineers Association (JEA).
- ◇ Member of National Technical committee, Accreditation Unit, Jordan Institution for Standards & Metrology

## Interests

Readings in History, Traveling for cultural exchange, Sports.

**PUBLISHED PAPERS AND SELECTED PROJECTS ACCEPTED FOR PUBLICATION**

A. Al-Ghandoor; I. Al-Hinti; A. Mukattash; Y. Al-Abdallat “ [Decomposition analysis of electricity use in the Jordanian industrial sector](#) “ *International Journal of Sustainable Energy*, Volume 29, No 4, 2010, Pages 233 – 244

Yousef Abdallat, Ahmed Al-Ghandoor, Ismael Al-Hinti, , Adnan Mukattash, “ Potential CO<sub>2</sub> reduction through restructuring the Jordanian utility sector” . *International Journal of Environment and Waste Management (IJEWM)*

Al Abdallat, Y. Al Asfar, J. J Yamin, J. and Hamdan, M. A. Experimental Investigation of Hydrogen Storage in Local Sand, Engineering Congress on Alternative Energy Application November 2<sup>nd</sup> – 6<sup>th</sup>, 2009, KUWAIT

Sakhrieh, M. A. Hamdan and Y. Abdullat , Experimental Study of Oil Shale and Olive Cake Dust Explosion by Burning Mixtures of Coarse and Fine Particles " , *Jordan Journal of Mechanical and Industrial Engineering*

Al-Abdallat, Y, Al Asfar, J. J., and Hamdan, M. A Building and Testing of a Simple PEM Fuel Cell, Global Conference on Renewables and Energy efficiency for Desert Regions[GCREEDER 2009] March 31<sup>st</sup>-April 2<sup>nd</sup>, 2009-01-28 Amman - Jordan

Al Asfar, J. J. Al-Abdallat, Y, and Hamdan, M. A Theoretical Study of Hydrogen Flow in Porous Medium of Local Sweileh Sand Global Conference on Renewables and Energy efficiency for Desert Regions[GCREEDER 2009] March 31<sup>st</sup>-April 2<sup>nd</sup>, 2009-01-28 Amman - Jordan

Y. Al-Abdullat, S. Tsutsumi, N. Nakajima, M. Ohta, H. Kuwahara, K. Ikeuchi, Surface Modification of Magnesium by NaHCO<sub>3</sub> and Corrosion Behavior in Hank's Solution for New Biomaterial Applications, *Materials Transactions*, Vol. 42, 8 (2001) pp. 7301-7304.

H. Kuwahara, Y. Al-Abdullat, N. Mazaki, S. Tsutsumi, T. Aizawa, Precipitation of Magnesium Apatite on Pure Magnesium Surface during Immersing in Hank's Solution, *Materials Transactions*, Vol. 42, 7 (2001) pp. 1317-1321.

Y. Al-Abdullat, S. Tsutsumi, K. Ikeuchi, Improvement of Corrosion Behavior of Pure Magnesium Modified by Alkaline Solutions for New Biomaterials, accepted abstract to International Industrial Engineering Conference (IIEC-2001), Amman, Jordan, Sep. (2001).

Y. Al-Abdullat, H. Kuwahara, S. Tsutsumi, K. Ikeuchi, Improvement of Corrosion Behavior of Magnesium as New Biomaterials by Surface Modification with Alkaline in Vitro, International Conference on Metallurgical Coatings and Thin Films, San Diego, USA, April 30-May 4, (2001) pp. 116.

Y. Al-Abdullat, H. Kuwahara, N. Mazaki, T. Aizawa, C. Peng, S. Tsutsumi, Surface Reaction of Magnesium in Vitro, Annual meeting of Japan Institute of Metals (JIM), Yokohama, March 29-31, (2000).

Y. Al-Abdullat, H. Kuwahara, C. Peng, S. Tsutsumi, Possibility of Magnesium as a New Dental Biomaterials, International & American Assoc. For Dental Research Conference (IADR), Washington, D. C. April. 5-8. *J. of Dental Res. JDR*, vol.79 Washigton, D.C, (2000) pp.618.

- Y. Al-Abdullat, H.Kuwahara, S. Tsutsumi, Magnesium and Its Alloys as New Dental Biomaterials, Conference of Japanese Society for Dental Materials and Devices, The Journal of Japanese Society for Dental Materials and Devices, vol. 19 Tokyo. April. 27- 28. (2000) Pp. 95
- H.Kuwahara, Y. Al-Abdullat, M. Ohta, S. Tsutsumi, K. Ikeuchi, N.Mazaki, T. Aizawa, Surface Reaction of Magnesium in Hank's Solution, Magnesium Alloys 2000, Proceeding of the first International Workshop on Magnesium platform Science and Technology- Nagaoka Jul. (2000) pp. 349-358.
- Y. Al-Abdullat, N. Nakajima, S. Tsutsumi, K. Ikeuchi, Cytotoxicity and Biocompatibility of Magnesium and Its Alloys as New Biomaterials in Simulated Body fluid, in preparation.
- Corrosion Resistance of Welded Super-Duplex and Super-Austenitic Stainless Steels”, (published paper in the International Conference on the joining of materials, JOM-8, 1997, Helsingor, Denmark.
- Y. Al-Abdullat, Welding Metallurgy of Stainless Steels”. (Published as paper in the “First Jordanian Mechanical Engineering Conference“ Amman-Jordan, 1995.

**ACCEPTED FOR PUBLICATION** "

1. Inhibition of solid fuel dust explosion by burning mixtures of coarse and fine particles", By A. Sakhrieh and M. A. Hamdan, Y. Al-Abdallat. Jordan Journal of Mechanical and Industrial Engineering [jjmie@hu.edu.jo]
2. “Theoretical Study of Hydrogen Flow in Porous Medium of Local Sweileh Sand” by Al Asfar, J. J. Al-Abdallat, Y, and Hamdan, M. A. The Energy Conversion and Management Journal, Elsevier Editorial System (EES) “Special issue – GCREEDER 2009”.
3. Hamdi, Naser; Dweiri, Yazan; Al-Abdallat, Yousef; Haneya, Tarek "A Practical and Feasible Control System for Bifunctional Myoelectric Hand Prostheses". Prosthetics & Orthotics International 2010.

**Conferences, Seminars and work shop Attended**

1. **Rapid Innovation Action Learning (RIAL) Jordan, Lebanon, Syria Workshop** held in Beirut on July 5-6, 2010 which is jointly organized by the Korea Development Institute and the World Bank.
2. The National Conference for the Development of Study Plans, Teaching and Learning, and Scientific Research which is jointly organized by **Ministry of Higher Education and Scientific Research & Columbia University Middle East Research Centre (CUMERC)** (June 15-17) Amman Jordan 2010
3. **Regional workshop on Strengthening National Innovation Systems- Jordan, Egypt, Syria** that took place in February in Damascus from 16th to 17th February 2010 organized by **German Technical Cooperation (GTZ) Project** "Promotion of Innovation and Technology for SMEs in the Near East
4. The Higher Education and Labor Market Partnership Conference" "**Support to Bridging the Gap between Higher Education and Labor Market**" **UNDP Project** - Phase II, Amman Jordan 10 December 2009
5. The Second German Jordanian Workshop on Energy and Alternative Fuels held from 12<sup>th</sup> to 14<sup>th</sup> of October 2009 in Amman, Jordan University and Erlangen-Nuremberg University /Germany
6. How to Promote and Development SMEs in Jordan, Training Program held in Tokyo Japan Nov.30<sup>th</sup>-Dec 13<sup>th</sup> 2008 organized by JICA
7. Seminar titled "Using Ion Accelerator in studying solid surfaces materials by using PIXE (Particle Ion X-ray Emissions) and RBS (Rutherford Back Scattering) techniques", Organized by Arabian Authority for Nuclear Energy in Beirut / Lebanon from 15- 19 Dec. 2003
8. International Industrial Engineering Conference (IIEC-2001), Amman, Jordan, Sep. 23th. (2001). Presentation title "Improvement of Corrosion Behavior of Pure Magnesium Modified by Alkaline Solutions for New Biomaterials".
9. International Conference on Metallurgical Coatings and Thin Films, San Diego, USA, April 30-May 4, (2001). Presentation title "Improvement of Corrosion Behavior of Magnesium as New Biomaterials by Surface Modification with Alkaline in Vitro".
10. Annual meeting of Japan Institute of Metals (JIM), Yokohama, March 29-31, (2000). Presentation title "Surface Reaction of Magnesium in Vitro".
11. International & American Assoc. For Dental Research Conference (IADR), Washington, D. C. April. 5-8. J. of Dental Res. JDR, vol.79 Washington, D.C, (2000). Presentation title "Possibility of Magnesium as a New Dental Biomaterials".
12. The Journal of Japanese Society for Dental Materials and Devices, vol. 19 Tokyo. April. 27- 28. (2000). Presentation title "Magnesium and Its Alloys as New Dental Biomaterials, Conference of Japanese Society for Dental Materials and Devices".
13. The first International Workshop on Magnesium platform Science and Technology- Nagoia-Japan Jul. (2000). Presentation title "Surface Reaction of Magnesium in Hank's Solution".

14. Global Conference on Renewables and Energy efficiency for Desert Regions[GCREEDER 2009]  
March 31<sup>st</sup>-April 2<sup>nd</sup>, 2009-01-28 Amman - Jordan