

CURRICULUM VITAE

Khaleel Abu Shgair, Dr.-Ing.

PERSONAL DATA

Name : Khaleel N. Abu Shgair
Date of Birth : 01.06.1972
Marital Status : Married
Nationality : Jordanian
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EDUCATION

Dr.-Ing., 2002, Thin Film Coating, Department of Precision Engineering, Technical University Kaiserslautern, Germany.

Thesis: New Possibilities for Building High-Vacuum Chambers Using Glued Aluminum Plates and Application to Sputtered Nanocomposite Coatings

M.Sc., 1998, Mechanical Engineering (Applied Mechanics), Jordan University of Science and Technology, Irbid, Jordan.

Thesis: Wear Resistance Optimization of Copper, Lead, Tin Alloys under Different Conditions.

B.Sc., 1995, Mechanical Engineering (Production Engineering), Jordan University of Science and Technology, Irbid, Jordan.

WORKING EXPERIENCE

Assistance Professor, 9/2006-Present, Department of Mechanical Engineering, Albalq' Applied University, Jordan

Full Time Lecturer, 9/2004-9/2006, Department of Mechanical Engineering, Albalq' Applied University, Jordan.

General Manager, Zmaily Dental Lab. 3/2003-8/2004, Amman, Jordan

Research Assistance, 7/1999-1/2003, Precision Engineering, Department of Precision Engineering, Technical University of Kaiserslautern, Germany.

Part Time Research Assistance, 9/1999-10/2000, Department of Fluid Flow and Fluid Displacement Machines, Technical University of Kaiserslautern, Germany

Part Time Research Assistance, 11/2000-1/2003, Department of Machine Dynamics, Technical University of Kaiserslautern, Germany

Engineering Consultant, 7/1998-4/1999, Khresat Engineering Office, Irbid Jordan.

Research Assistance, 6/1996-6/1998, Mechanical Engineering, Department of Mechanical Engineering, Jordan University of Science and Technology, Irbid, Jordan

Training Engineer, 10/1995- 10/1996, Vocational Training Corporation, Jordan.

Practical Training, 6/1994- 10/1994, Jordan Seaport, Aqaba, Jordan.

TEACHING EXPERIENCE

Different Courses in design and manufacturing sciences and related topics (e.g., manufacturing Process, Mechanical Design, Mechanics of Material, Dynamics, Metallurgy, Piping Systems Design, Maintenance Management and AutoCAD etc.)

LANGUAGES

Arabic

English

German

COMPUTER SKILLS

CAD/ CAM: Solid Edge (Unigraphics), AutoCAD

Finite Element Modeling: Ansys

MS-Office

AREAS OF INTEREST

Precision Machining

Design of Vacuum Systems

Thin Film Coating Systems Design

Deposition of Nanocomposite Material (Hard Coatings) [(Ti, Al, Si)N & (Ti, Al, C)N]

Simulation of Physical Vapor Deposition Processes

Outgassing of Materials

PUBLICATIONS

1. K. Abushgair, Wear Resistance Optimization of Copper, Lead and Tin alloys, JES, Vol. 34, 2006

2. K. Abushgair, R. Haberland, Outgassing Rate Optimization of Different Aluminum Alloys with Various Surface Treatments, Accepted for publication Vacuum J.
3. K. Abushgair, R. Haberland, Deposition of Nanocomposite (Ti, Si, Al)N Coatings, *The 6th Jordanian International Mechanical Engineering Conference (JIMEC'6)* 22 - 24 October 2007, Amman – Jordan
4. R. Haberland, K. Abushgair, New Possibility for Building High Vacuum Chamber Using Glued Aluminum Plates for Sputtering Thin Film Coating, Submitted to J. of Vac. Sci. and Technology
5. G. C. Vandross, H. H. Abu-Safe, K. Abu-Shgair, and M. H. Gordon “TiAlN Films Deposited by AC Reactive Magnetron Sputtering,” accepted for the SVC conference, Chicago. USA
6. K. Abu-Shgair, H. Abu-Safe, and M. H. Gordon, “Microstructure, mechanical properties and cutting performance of superhard (Ti,Al)N films Deposited by AC Reactive Magnetron Sputtering,”. Submitted to J. of S. C. and Technology

REFERENCES

1. Prof. Dr.-Ing. R. Haberland, Department of Precision Engineering, Technical University Kaiserslautern, Germany, Tel.: +49(0)631-205-2835, E-mail: haberland@mv.uni-kl.de
2. Prof. Dr.-Ing. W. Seemann, Department of Machine Dynamics, Technical University Kaiserslautern, Germany, Tel.: +49(0)631-205-4043, E-mail: seemann@mv.uni-kl.de
3. Prof. Dr.-Ing. D.-H. Hellmann, Department of Fluid Flow and Fluid Displacement Machines, University of Kaiserslautern, Germany, Tel.: +49(0)631-205-2760, E-mail: hellmann@mv.uni-kl.de