# Name:-Alaa Hasan Ali Al Shamary

Date of Birth: - May 4, 1953 / Al Muthana /Iraq

Permanent address:-
Iraq, Bagdad, Al-Jamiaa St.

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Nationality: - Iraqi

Marital Status: - Married 3 kids

Languages:-
Arabic: Native reading and writing.
English: Fluent reading and writing.
Germany: Good reading and writing.

Occupations:
- Assistant Professor, Materials Engineering Department/University of Technology / Baghdad /Iraq.
- Head of Laboratories, from 2004-2008.
- Head of committee of Education projects. Since 2008.
- Member of Scientific committee. Since 2005.
- Member of Leading Projects committee in the University.
- Member of Distinct Projects committee in the Department.

Education& Qualification:-

2002: PhD in Mechanical Engineering (Metal Forming), University of Technology, Baghdad / Iraq.

1995 : M.Sc. Metallurgy and Production Engineering ( Die Design ) , University of

Technology, Baghdad /Iraq.

1976: B.Sc. in Mechanical Engineering (5 years), College of Engineering, Baghdad University, Baghdad / Iraq.
1973: PGHD (Post Graduate Higher Diploma) in Mathematics by courses.

3- Teaching &Lecture experiences:

B.Sc. for the following subjects:-
-Manufacturing Processes
-Casting &Dies casting design
-Forging &Forging die design
-Material Engineering Technology
-Metal Forming
-Strength of Materials
-Failure & Fracture

M.Sc. courses for the following subjects:-
- Mechanical Behavior of Materials.
- Mechanical Metallurgy
- Metal forming

Supervisor for M.Sc. theses as followings:
-(Study the mechanical and physical properties of epoxy composite materials Reinforced by fiber glass and thermal treatment Rice hulk) .
-(Improving the thermal specifications of Refractories, using local materials).
-Manufacture of porous refractory ceramic bodies by adding local porcelanite to the kaolinite

Examiner of the followings M.Sc. theses:
- (Photo elastic stress analysis using image processing technique). Engineering College / Al Anbar University. June 2003.
- ( A study of strain distribution over cup wall in deep drawing operation using Visio Plasticity method). Production Engineering &Metallurgy Department / University of Technology .May 2005.
- ( Effect of mass distribution on the dynamics of the four bar mechanism).Technical College-Baghdad / Foundation of Technical Education.Sepmteber 2005.
- (Characterization of Super plasticity NiTi Shape Memory Alloys). Materials Engineering Department/ University of Technology. October 2011.

Conferences and Seminars: -

Presentation:

1- Presentation of Paper addressed (Closed Die Forging of Turbine Blades) In ASME,10th Biennial Conference on Engineering Systems Design and Analysis. Istanbul /Turkey, July 12-14, 2010.

2- Presentation of Paper addressed (Effect of SiO2 particles on the Mechanical properties of Al-Alloy).
(International Conference on Advances in Manufacturing Technology), 15-17 June 2012.

3- Seminar in Fundamental Metal Forming (Michigan State University, USA, 2013)

4- Seminar in LATEX (Michigan State University, USA, 2013)

Conferences attend as Presence:

1- 19th International Conference on Wear of Materials, April 14-18, 2013, Portland, Oregon, USA .
2- Eighth Pacific Rim International Congress on Advance Materials and Processing (PRICM-8), held August 4-9, 2013 in Waikoloa, Hawaii, USA.
3- 2013 SMART MATERIALS, ADAPTIVE STRUCTURES, AND INTELLIGENT SYSTEMS CONFERENCE, held at the Snowbird Resort and Conference Center, Snowbird, Utah, USA, from September 16-18, 2013.
4- 4th International & National Scientific Conference for Nanotechnology and Advance Materials, November (6-7), 2013, Iraq.

Grants and awarded:

More than 60 Acknowledgments and awarded received during my long career.

Researches and Publications:

-Study the influence of the reinforced materials geometrical shape on the Internal stresses in the composite materials. (Al- Khwarizmi Engineering Journal, Vol. 3, No. 3, November 2007).

-Study the effect of stresses in the steam turbine governing blades by Finite element method. (Engineering & Technology Journal. Vol.27. No.1. 2009)

- Study the influence of forming conditions like deformation speed on void Closure in open die forging. (Al-Khwarizmi Engineering Journal,Vol.4, No. 4, December 2008).

- Finite element simulation of a Turbine blade by closed forging dies. (International Gas Turbine Conference "IGTC" 2007) Japan, 2008.

- The Influence of Bonding Mode and wire setting on the Stress of Metal Matrix composite Reinforced by Continuous wire (The Ninth Engineering Conference 2004).

- Strain rate effect on voids closure in open forging die using finite element method. ( Engineering & Development Journal,Vol.14, No.1, March 2010).

-A computer Aided Design for Internal spur and Helical Gears.( Engineering & Development Journal. Vol.13, No.1 March 2009)

- Effect of die design on forged properties of Al, 2001. (Al- Khwarizmi Engineering Journal, accepted to be published ).

- Effect of Reinforced Material location on the strength of the composite materials. (Babylon Engineering Journal, submitted for publication).

- Closed Die Forging of Turbine Blades.(ASME, 10th Biennial Conference on Engineering Systems Design and Analysis) July 12-14 , 2010.

- Effect of SiO2 particles on the Mechanical properties of Al-Alloy. (International Conference on Advances In Manufacturing Technology), 15-17 June 2012.

Professional Experiences:

2008-2012: Assistance Professor and Head of Education Projects Committee in Materials Engineering Department (University of Technology).

2006-2008: Head of Education Projects Committee and Lecturer in Materials Engineering Department (University of Technology).

2004-2006: Head of Laboratories and Lecturer in Materials Engineering Department (University of Technology) .

2003-2004: Lecturer in Materials Engineering Department (University of Technology).
1998-2003: Director of Research & Development Department .(Ministry of Industry).
1993-1998: Technical Director. (Ministry of Industry).

1990-1993: Director General of Heavy-Duty Machinery Centre (Ministry of Industry).
1981-1990: Director of Maintenance and Production Plants.(Ministry of Industry).
1979-1981: Manager of Maintenance & Auxiliary Plants. (Ministry of Industry).
1977-1979 : 22 months training and study by Gildemeister Company (West Germany).

Achievements and Experiences:

- Design& manufacturing many engineering parts.
- Design & manufacturing many cutting and forging dies.
- Design and manufacturing special high speed &carbide tools.
- Maintenance & repair many engineering parts for machines and equipments.
- Development of engineering courses for product and die manufacturing, B.Sc., Diploma & M.Sc.
- Design & manufacturing many spare parts for machines and equipments.
- Design and selection many special tool steel for special applications.
- Study and manufacturing many reinforced steel bars.

Training and Studies

- Gildemeister Aktien Geslishaft ( 01.10 1977).(Germany )
- Ipsen Industries International GmbH (3 July 1978). (Germany )
- Sennestal GmbH Stahl heitren (26.11.1978).(Germny )
- West Falische Metal Industrie KG Lippstat (17.June.1978).(Germany )
- Kersten& Sohn (7May.1979).(Germany)
- Gildemeister project GmbH. (Germany)
- Dogn Fang Electric Corporation (30. November.2000).(China)
- Dong Fang Steam Turbine works (November.2000). ( China )

Affiliation;

- Member of Engineering Consultant Bureau (University of Technology).
- Consultant engineer in Iraqi Society Engineering.
- Consultant in Iraqi Engineering Union.
- Member in Society for Quality and Rehabilitee.
- Member of American Society of Mechanical Engineering ((ASME)).
- Board member of Watan Organization for Reconstruction & Development work –NGO.