


IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data

A. PERSONAL		
Title	Prof. Dr	
Name	Mehmet DEMİRKOL	
Birth Place and Year	Ankara / 1953	
e-Mail / Personal Web Site	mehmet.demirkol@isikun.edu.tr	
Specialization Area	Mechanical Engineering and Technology	
Foreign Language	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	1987	Materials and Manufacturing	Istanbul Technical University (ITU)
Master of Science	1979	Mechanical Engineering	Boğaziçi University
Bachelor of Science	1976	Mechanical Engineering	Boğaziçi University
Associate	-	-	-

C. ACADEMIC		
Title	Year	Institution
Professor	1999	ITU, Mechanical Engineering Faculty
Associate Professor	1991	ITU, Mechanical Engineering Faculty
Assistant Professor	1989	ITU, Mechanical Engineering Faculty
Lecturer	-	-
Research Assistant	-	-

D. PROFESSIONAL EXPERIENCE	
Year	
a. Domestic	
2013 -	Işık University, Mechanical Engineering Department, Full-time Faculty
1989 - 2013	ITU Mechanical Engineering Faculty, Full-time Faculty
1978 - 1989	TUBITAK, Marmara Research Institute, Research Scientist
1976 - 1978	Boğaziçi University, Mechanical Engineering Department, Teaching Assistant
b. Abroad	
1983	Fulmer Research Institute, Visiting Researcher, London, England
1993	University of Wales, Materials Eng. Dept., Visiting Scientist, Swansea, Wales

E. ADMINISTRATIVE EXPERIENCE	
Year	
a. At Işık University	
2014 -	Işık University, Head of Mechanical Engineering Department
2013 -	Işık University, Engineering Faculty Board Member
2008 - 2009	Istanbul Technical University, Vice Rector
2000 - 2004	Istanbul Technical University, Dean of Mechanical Engineering Faculty
1994 - 2000	Istanbul Technical University, Vice Dean of Mechanical Engineering Faculty

b. At other Institutions	
2013 - 2015	MUDEK (Association for Evaluation and Accreditation of Engineering Programs) Administrative Board Member
2009 - 2013	TUBITAK, National Metrology Institute Administrative Board Member

F. INDUSTRIAL EXPERIENCE		
Year	Company	Title
-	-	-
-	-	-
-	-	-

G. INSTRUCTED COURSES	
a. At Işık University	b. At the Other Institutions
ME007 Int. to Mechanical Engineering	MAK201 Materials Science (ITU)
ME429 Manufacturing Engineering	IML313 Manufacturing Processes-II (ITU)
MECH3511 Manufacturing Processes	MAK565 Mechanical Behavior of Materials (ITU)
MECH2510 Materials Science	MM212 Materials Science (Doğuş University)
MECT2520 Materials and Manufacturing	MM332 Manufacturing Technology (Doğuş U.)

H. INTERESTED FIELDS
Materials Science and Technology
Mechanical Behavior of Materials
Manufacturing Technology (Mechanical Forming, Heat Treatments)
Failure Analysis

I. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	14
Doctorate	2

J. PUBLICATIONS						
Type	SCI-Exp International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	11	-	4	2	12	1
SCI-Exp Total Number of Citations	280					
Important Publications						
1. "Effect of Heat Treatment on the Bauschinger Effect for a Medium Carbon Steel", A.Aran, M.Demirkol, Materials Science and Engineering , vol.47, 1981, pp.89-92						
2. "On the Relations Between Ball Indentation Hardness Measurements and the Tensile Behavior of Some Ferrous and Non-Ferrous Metals", M.Demirkol, E.Kisakürek, Materials Science and Engineering , vol.59, 1983, pp.197-205						
3. "Bauschinger Effect in Precipitation Strengthened Aluminum Alloy 2024", A.Aran, M.Demirkol, A.Karabulut, Materials Science and Engineering , vol.89, 1987, pp.L35-39						
4. "Cyclic Stress-Strain Behavior of an Aged 2024 Aluminum Alloy", M.Demirkol, A.Aran, Zeitschrift für Metallkunde , vol.81, 1990, pp.887-890						
5. "Effect of Case Depth on Fatigue Performance of AISI 8620 Carburized Steel", K.Genel, M.Demirkol, International Journal of Fatigue , vol.21, 1999, pp.207-212.						
6. "Effect of Ion-Nitriding on Fatigue Behavior of AISI 4140 Steel", K.Genel, M.Demirkol, M.Çapa, Materials Science and Engineering A , vol.279, 2000, pp.208-217						

7. "Corrosion Fatigue Behavior of Ion nitrided AISI 4140 Steel", K.Genel, M.Demirkol, T.Gülmez, Materials Science and Engineering A , vol.288, 2000, pp.91-100
8. "Effect of Cathodic Polarization on Corrosion Fatigue Behavior of Ion-Nitrided AISI 4140 Steel", K.Genel, M.Demirkol, M.Urgen, International Journal of Fatigue , vol.24, 2002, pp.537-543
9."A Method to predict effective case depth in ion nitrided steels", K.Genel, M.Demirkol, Surface and Coatings Technology , Volume 195, 2005, pp.116-120
10."Effect of microstructure on the hysteresis performance of force transducers using AISI 4340 steel spring materials", S.Fank, M.Demirkol, Sensors and Actuators A , vol.126, 2006, pp.25-32
11."A study on the electroless Ni-B Nano-composite coatings", B.Kaya, T.Gülmez, M.Demirkol, IAENG Transactions on Engineering Technology , Volume II, vol. 1127, 2009, pp.63-73
12. "Low Cycle Fatigue of Martensitic AISI 4140 Steel at Low Temperatures", M.Demirkol, D.Gücer, 2nd Int. Conf. on Low Cycle Fatigue and Elasto-Plastic Behaviour of Materials , Sept.7-11, 1987, Munich
13. "Fatigue Life Enhancement of Internal Fixation Plates by Ion Nitriding", M.Demirkol, T.Gülmez, M.Çapa, 2nd Biennial European Joint Conf. On Engineering Systems Design and Analysis , July 4-7, 1994, London
14. "Effect of hardness on creep response of strain gage based force transducer using AISI 4340 steel as spring material", S. Fank, M. Demirkol, IMEKO Proceedings of the 17th Int. Conf. On Force, Mass, Torque and Pressure Measurements , 17-21 Sept. 2011, İstanbul.

K. RESEARCH EXPERIENCE						
Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor	-	-	-	1	-	-
As Researcher	1	1	-	-	-	-

L. REFEREEING								
	SCI-Exp Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	2	3	-	4	2	10	201	1

M. INTELLECTUAL PROPERTIES			
Patents #	Utility Models #	Industrial Designs #	Other # (.....)
-	-	-	-

N. PROFFESIONAL ASSOCIATION MEMBERSHIPS
TMMOB, Turkish Chamber of Mechanical Engineers
MUDEK, Association for Evaluation and Accreditation of Engineering Programs (Turkey)