

IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Prof. Dr.	
Name	Mehmet DEMIRKOL	
Birth Place / Year	Ankara (Turkey) / 1953	
e-Mail / Personal Web Site	mehmet.demirkol@isikun.edu.tr	
Working Field(s)	Mechanical Engineering and Technology	
Foreign Language(s)	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	1987	Materials and Manufacturing	Istanbul Technical University
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	
a. Domestic	
2013 -	Işık University, Mechanical Engineering Department, Faculty Member
1989 - 2013	ITU Mechanical Engineering Faculty, Faculty Member
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	
a. At Işık University	
2014 -	Işık University, Head of Mechanical Engineering Department
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/Companies	

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

F. INTERESTED SUBJECTS

Materials Science and Technology
 Mechanical Behavior of Materials
 Manufacturing Technology (Mechanical Forming, Heat Treatments)
 High Temperature Properties of Metals & Alloys

G. INSTRUCTED COURSES

a. At Işık University	b. At Other Institutions
MECT2520 Materials and Manufacturing	MAK201 Malzeme Bilimi (İTÜ)
MECH2510 Materials Science	İML313 Manufacturing Processes-II (İTÜ)
MECH3511 Manufacturing Processes	MAK565 Malzemelerin Mekanik Davranışı (İTÜ)
ENGR4901 Introduction to Design Project	MM212 Malzeme Bilimi (Doğuş Ü.)
MECH4902 Graduation Design Project	MM332 İmalat Teknolojisi (Doğuş Ü.)

H. NUMBER OF SUPERVISED GRADUATE THESIS

Master of Science	13
Doctorate	2

I. PUBLICATIONS

Type	SCI-Expanded 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	2
SCI-Expanded Total Number of Citations	402					
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.Kısakürek, 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 Behaviour of AISI 4140 Steel", K.Genel, M.Demirkol, M.Çapa, Materials Science and Engineering A , vol.279, 2000, pp.208-217						
7. "Corrosion Fatigue Behaviour 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 Behaviour 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.

J. RESEARCH EXPERIENCE

	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
Number of Projects						
As Supervisor	-	-	-	1	-	-
As Researcher	1	1	-	-	-	-

K. REFERREING

Type	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	2	3	-	4	2	5	210	2

L. INTELLECTUAL PROPERTIES

Patents	Utility Models	Industrial Designs	Other
-	-	-	-

M. PROFFESIONAL ASSOCIATION MEMBERSHIPS

TMMOB, Turkish Chamber of Mechanical Engineers

MUDEK, Association for Evaluation and Accreditation of Engineering Programs (Turkey)

N. OTHER USEFUL INFORMATION (if any)

MÜDEK Accreditation Program Evaluator: 12 Programs

MÜDEK Accreditation Team Chair: 7 Institutions