


IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Prof. Dr. (Part-Time)	
Name	Erkan AYDER	
Birth Place and Year	Balıkesir 1962	
e-Mail / Personal Web Site	aydere@itu.edu.tr http://web.itu.edu.tr/aydere/	
Working Field	Mechanical Engineering, Thermo-Fluid Sciences	
Foreign Language	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	1993	Applied Sciences	Von Karman Institute, Gent University
Master of Science	1986	Mechanical Engineering	ITU Graduate School of Sci. Eng. Tech.
Bachelor of Science	1983	Mechanical Engineering	ITU Faculty of Mechanical Engineering
Associate	-	-	-

C. ACADEMIC		
Title	Year	Institution
Professor	2002 -	ITU Faculty of Mechanical Engineering
Associate Professor	1995 - 2002	ITU Faculty of Mechanical Engineering
Assistant Professor	1993 - 1995	ITU Faculty of Mechanical Engineering
Lecturer	-	-
Research Assistant	1984 - 1993	ITU Faculty of Mechanical Engineering

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
Faculty Member	Istanbul Technical University, Faculty of Mechanical Engineering
b. Abroad	

E. ADMINISTRATIVE EXPERIENCE	
a. In the University	
Vice Dean	Istanbul Technical University, Faculty of Mechanical Engineering
Director	Istanbul Technical University, School of Foreign Languages

b. In other Institutions	

F. INTERESTED SUBJECTS	
Fluid Mechanics	
Turbomachinery	

G. INSTRUCTED COURSES	
a. At Işık University	b. At the Other Institutions
ME265 Fundamentals of Thermal Sciences	Fluid Mechanics
ME353 Fluid Mechanics	Gas Turbines
	Aerothermodynamics of Turbomachinery
	Theory of Similarity
	Measurement Techniques

H. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	10
Doctorate	2

I. PUBLICATIONS						
Type	SCI International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	7	3	2	4	8	2
SCI Total Number of Citations	83					
Important Publications						
<ol style="list-style-type: none"> 1. "Hücum Kenarı Şeklinin Eksenel Fan Performansına Etkileri", Isı Bilimi ve Tekniği Dergisi, A.N. İlikan, E. Ayder, 34 (2), 2014 2. "Influence of the Sweep Stacking on the Performance of an Axial Fan", A.N. İlikan, E. Ayder, 2014, ASME Journal of Turbomachinery 3. "Influence of the Dihedral Stacking on the Performance of an Axial Fan", A.N. İlikan, E. Ayder, 2014, Engineering Applications of Computational Fluid Mechanics 4. "Numerical calculation of the three-dimensional swirling flow inside the centrifugal pump volutes", Nurşen, C., Ayder, E., The international Journal of Rotating Machinery (Taylor & Francis), Volume 9, Number 4, Jul-Aug 2003, 5. "Improved Model for the Design and Analysis of Centrifugal Compressor Volute", R. A. Van Den Braembussche, E. Ayder, D. Hagelstein, M. Rautenberg, R. Keiper, ASME Journal Of Turbomachinery, Vol.121, No.3, July 1999 6. "Numerical Analysis of the 3D Swirling Flow in Centrifugal Compressor Volute", E. Ayder, R. A. Van Den Braembussche, ASME Journal Of Turbomachinery, Vol.116, No.3, July 1994 7. "Experimental and Theoretical Analysis of the Flow in a Centrifugal Compressor Volute", . Ayder, R. A. Van Den Braembussche, J. J. Brasz E., ASME Journal Of Turbomachinery, Vol.115, No.3, July 1993 8. "Experimental Study of the Swirling Flow in the Volute Centrifugal Pump", T. Elholm, E. Ayder, R. A. Van Den Braembussche, ASME Journal Of Turbomachinery, Vol.114, No 2, April 1992 						

J. RESEARCH EXPERIENCE						
Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor	-	1	-	2	-	2
As Researcher	2	1	-	2	-	1

K. REFERREING								
	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	10	8	7	8	6	-	42	1

L. INTELLECTUAL PROPERTIES			
Patents	Utility Models	Industrial Designs	Other
-	-	-	-

M. PROFESIONAL ASSOCIATION MEMBERSHIPS
Pump Manufacturers Association of Turkey