

Dr. Durmus Kaya*Assistant Professor, Department of Industrial Engineering, King Abdulaziz University***Education**

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Mechanical Engineering	Sakarya University	1996-2001
MS	Mechanical Engineering	Kocaeli University	1994-1996
BS	Mechanical Engineering	Yildiz University	1987-1991

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2013	present	King Abdulaziz University	Prof.		Full time
2010	2013	Karabuk University,	Prof.		Full time
2000	2010	TUBITAK Marmara Research Center	Senior Researcher		Full time
1999	2000	Arizona State University,	Researcher.		Full time

Non Academic Industrial Experience (including Consultations)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
1993	1999	TUPRAS Izmit Refinery, TURKEY	Project	Manager	Full time

Funded Research Projects and Patents from the Past Five Years

1. Sustainable and Environmentally Friendly Livestock Management: Synthesis of Animal Wastes Bioenergy and Bioproduct, TUBITAK TEYDEB, Ertan Tarım Hayvancılık ve Enerji İşletmeleri Tic. A.Ş. 2011-2013, (R&D Coordinator).
2. Annealing Furnace Fuel Optimization in Rail Profile Rolling Mill, Design of a New Recuperator and Economizer in order to Make Maximum Use of Waste Heat, and their System Integration, Kardemir&TÜBİTAK TEYDEB, 2011-2012.
3. VE-CA Kurşunlu Energy Plant Efficiency, Determination of Conservation Facilities, VE-CA Dış Ticaret A.Ş., 2011-2012.
4. Performance Measurement and Evaluation Study in Mill Annealing Furnace Efficiency, Kayıkçı Demir Çelik Sanayi, 2012.
5. Efficiency, Performance Measurement and Evaluation Study in KARDEMİR Rail Profile Rolling Mill and Continuous Annealing Furnaces Rolling Mills, Karabük Demir Çelik San. Tic. A.Ş. 2011.
6. KARDEMİR Energy Efficiency Study in 4. High Furnace and Determination of Conservation Facilities, Karabük Demir Çelik San. Tic. A.Ş. (2011-Devam)
7. Energy Efficiency and Evaluation Study in Compressed Air System, Karabük Demir Çelik San. Tic. A.Ş. (2011)
8. KARDEMİR Energy Efficiency and Evaluation Study in Pumps, Karabük Demir Çelik San. Tic. A.Ş. 2010-2011.

Certifications and Professional Registrations**Current Membership in Professional Societies and Organizations**

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
-----------------------------	-------------	---------------------

1.	The Turkish Chamber of Mechanical Engineers	1994
Honours and Awards		
1.	TUBITAK MRC Research Scholarship, Arizona State University, Industrial Assessment Center Tepme-Arizona, USA, 23 March 2000-23 September 2000 (Selected by the Exam).	
2.	MRC Incentive Award, "Exploitation of Agricultural Residues in Turkey" project, 2005.	
3.	MRC Achievement Award, "Vehicles Integration" project, 2001 Shield of Excellence from the Chairman of IE Department, KAU for the contribution of the year 2007.	
4.	TUPRAS Izmit Refinery Achievement Award, TUPRAS Izmit Refinery Burning of waste project and Plant 19-21st unit improvement studies, 1998.	
Institutional and Professional Services (<i>administration, committees, units, etc.</i>)		
Principal Publications/Presentations from the Past Five Years		
1.	Kaya D., Eyidogan M., Ozkaymak M., Turhan F., Kilinc E., Kayabasi E., Sahin Z., Sonverdi E., Selimli S., Energy-Exergy Efficiencies and Environmental Effects of A Mixed Fuel (Solid +Gas) Industrial Facility Steam Boiler, Journal of the Energy Institute, 2013; Number:4, Volume:8, 194-201	
2.	Kaya, D., Eyidogan, M. 2010. Energy Conservation Opportunities in an Industrial Boiler System, J. Energy Engineering. 136(1), 18-25.	
3.	Yaldiz, O., Sozer, S., Caglayan, N., Ertekin, C., Kaya, D., 2011. Methane Production from Plant Wastes and Chicken Manure at Different Working Conditions of One-Stage Anaerobic Digester, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 33:19, 1802-1813.	
4.	Kaya, D., Eyidogan, M. 2009. Energy Conservation Opportunity in Boiler Systems, J. Energy Resources Technology, 131(3), 032401.	
5.	Kaya, D., Eyidoğan, M., Polat, R., Çanka Kılıç F., Technical and Economic Feasibility Analysis of Municipal Solid Waste Recovery and Power Generation Plant, Journal of Agricultural Machinery Science, (Accepted).	
6.	Kılıçaslan İ., Kaya D., Sapmaz S., Waste Heat Recovery In Galvanising Industry, Engineering Science and Technology, An International Journal, Accepted. JESTECH, 15(3), 135-139, (2012).	
7.	Yanmaz M., Kaya D., Ultra-Low Carbon Dioxide (CO ₂) Steelmaking, Engineering Science and Technology, An International Journal, JESTECH, 15(2), 71-76, (2012).	
8.	Kaya D., Çanka Kılıç F., Renewable Energies, Clean Energy Generation And Their Subsidies In Turkey And Eu Countries, Engineering Science and Technology, An International Journal, JESTECH, 15(3), 113-122, (2012).	
9.	Kaya D., Kılıç F.C., 2012, Renewable Energies and Their Subsidies in Turkey and some EU countries-Germany as a Special Example, J. Int. Environmental Application & Science, V:7 (1) :114-127 (2012).	
10.	Kaya D., Eyidoğan M., 2011., Technological Developments in Biogas Production and Energy Conversion Systems, Atık Teknolojileri Dergisi, Sayı 19. Sayfa: 58-63.	
11.	Yiğit K.S., Kaya D., Yağmur A., Eren A.S., Energy Efficiency of Centrifugal Pumps Industrial, Otomasyon Dergisi, Motor ve Sürücüler, Sayfa 154-162, 2011	
Recent Professional Development Activities (<i>Workshops, training, etc.</i>)		
1.	Project Proposal Preparation and Submission and Project Management Training Programme, 28-29 September 2011 The Central Palace Hotel, Lamartin Caddesi 18, 34437, Taksim, Istanbul.	
2.	International Biogas Training Course, IBBK, 2009	
3.	TS EN ISO/IEC 17025 Standard General Requirements for the Competence of Calibration and Testing Laboratories, TÜBİTAK MAM, 2008	