

# CURRICULUM VITAE

**Mahmut F. AKŞİT**

Faculty of Engineering and Natural Sciences  
Sabancı University  
Istanbul, Turkey  
Date & Place of Birth: 1967, Denizli / Turkey  
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## EDUCATION

### Degrees

**Ph.D.**, Mechanical Engineering, **Rensselaer Polytechnic Institute**, Troy, NY, May 1998  
Thesis: A Computational Study of Brush Seal Contact Loads with Friction.  
Advisor: John A. Tichy

**M.S.**, Mechanical Engineering, **Rensselaer Polytechnic Institute**, Troy, NY, August 1993  
Thesis: Lumped Parameter Analysis of Powder Injection Molding  
Advisor: Daeyong Lee

**B.S.**, Mechanical Engineering, **Bogazici University**, Istanbul, Turkey, July 1991  
Thesis/Project: Effects of Processing Parameters on the Tensile Properties of Injection Molded Polypropylene and High Density Polyethylene  
Advisor: Sabri Altıntaş

### Professional Training

**e-Matrix Web Based Engineering and Product Data Management**, *Matrix One Inc.*, 2000

**DFSS (Design for Six Sigma) - Generation III**, *General Electric Corporate R&D*, 1999

**Fluid Sealing Technology**, *Georgia Institute of Technology*, 1999

**Project Leadership**, *PCI Global Inc.*, 1999

**Technical Writing**, *Thornton Communications Inc.*, 1999

**Effective Presentation**, *General Electric Power Systems*, 1999

**DFSS (Design for Six Sigma)**, *General Electric Corporate R&D*, 1998

**Interviewer Training Program**, *General Electric Corporate R&D*, 1998

**Turbine University**, *General Electric Power Systems*, graduated December 1996

## EXPERIENCE

**Sabancı University**, Turkey, *Faculty of Engineering & Natural Sciences*

**2003 - Present**

Associate Professor

(5/04– Present)

Assistant Professor

(7/03 – 5/04)

### Projects:

- “*MILRES National Wind Energy Systems Project: Design and Development of Novel Wind Energy Systems*”, Project Manager and Principle Researcher, Supported by Energy Ministry of Turkey and TUBITAK (The Scientific Research Council of Turkey), Project No. 110G010, Project Budget: 55 million TL (~ 34 million USD), 2011 – Present.

- “*Design, Development, Prototyping and Testing of Ultra High Temperature Actuators for Gas Turbine and Aircraft Engine Active Clearance Control*”, Project Manager and Principle Researcher, Supported by ATARD Defense & Aerospace Research and Development Inc. and TUBITAK (The Scientific Research Council of Turkey) EACF10-729, Project Budget: 268,668 TL (~ 174.5K USD) 2009 – 2011
- “*Laser Machining Equipped Microsystem Workstation*,” Project Researcher/Advisor, Supported by TUBITAK (The Scientific Research Council of Turkey) Project No. 108M520, Project Budget: 325,900 TL (~ 211.6K USD), 2009 – 2011
- “*Flywheel Energy Storage System*”, EDCF09-00611, Project Manager and Principle Researcher, Supported by ATARD / TAI (Turkish Aerospace Industries), Budget: 64,900 YTL (~ 42.1K USD), 2009 – 2010
- “*Design, development, prototyping and control of a tilt wing unmanned aerial vehicle*,” TACF07-00486, Researcher, Supported by TUBITAK (The Scientific Research Council of Turkey), Project Budget: 323,450 TL (~ 241.4K USD), 2007 - 2011
- “*Reduction of Mechanical Energy Losses and Development of New Bearings for Hermetic Compressors*,” TACF06-00413, Project Manager and Principle Researcher, Supported by TUBITAK Project No. 106M310 and Arcelik Co. R&D, Budget: 255,600 YTL (~ 160.75K USD), 2006 – 2009
- “*Open Structure Microsystems Assembly Workstation*,” EACF05-00268, Researcher, Supported by: Gebze Institute of Technology and DPT (Government Planning Organization), Project Budget: 1,170,000 YTL (~ 847.8K USD), 2005 – 2007
- “*Design and Development of a Crossflow Micro Turbine for Hydroelectric Power Generation*,” EACF05-00337, EACF06-00428/1, EACF06-00428/2, Project Manager and Principle Researcher, Supported by: Gebze Institute of Technology and DPT (Government Planning Organization), Project Budget: 475,700 YTL (~ 344.7K USD), 2005 – 2008
- “*Modeling of Superalloy Gas Turbine Blades*”, EACF04-00269, Project Manager and Principle Researcher, Supported by Scientific Research Council of Turkey (TUBITAK – Marmara Research Center), Project Budget 207,680 YTL (~ 145.2K USD), 2004 – 2007
- “*Design and Development of a Automated Fabric Labeler*,” EACF0400260, Project Manager and Principle Researcher, Supported by: Abbate Shirts – Oztay Textile Co., Budget: 67,200 YTL (~ 47K USD), 2004 – 2005

**Gebze Institute of Technology, Turkey, Asst. Prof. & Chair of Energy Systems Dept. 2001 – 2003**

Vice President, Kazakh-Turk Center for Renewable Sources of Energy (2002 – 2003)  
 Chair of Energy Systems Engineering Department (2001 – 2003)

Projects:

- “*Development of Fuel Cell Hybrid Powered Vehicular Systems*”, Project Manager and Principle Researcher, Supported by: Gebze Institute of Technology, 2001 – 2003
- “*Non-metallic Oil Sump Sealing Systems for Aircraft Engines*”, Project Manager and Principle Researcher, Supported by: General Electric Corporate R&D Center, 2001 – 2002

**General Electric Corporate R&D Center, NY, USA, Advanced Seals Team Leader 2000 – 2001**

Led a research team of 21 (11 Ph.D., 7 MS/BS level research engineers, and three technicians). Projects involved advanced sealing technologies for aircraft engines, gas and steam turbines, industrial generators and compressors, Medical Systems and X-Ray tubes, oil and gas applications.

**General Electric Corporate R&D Center, *Static & Nonmetallic Seals Project Manager* 1998 – 2001**

Provided management and technical leadership in three major research areas: High speed Hydrogen and oil sealing in industrial generators, gas turbines, and aircraft engines; High temperature flexible metallic seals for gas turbine applications; Non-metallic piston ring seals for natural gas compressors. Lead a team of 7 (2 Ph.D., 4 MS/BS level engineers, and one technician). Pursued ideas from concept to market. Main research projects, that were managed, are grouped as:

Non-Metallic Oil Brush Seals Technology Development for Aircraft Engines	(2000 – 2001)
High Speed Hydrogen and Oil Sealing in Industrial Gas Turbines & Generators	(1998 – 2001)
Development of Flexible Gas Turbine Combustor Seals	(1998 – 2001)
High Temperature Sealing of Gas Turbine Nozzle-Shroud Junctions	(1998 – 2000)
Gas Turbine Combustor Aft Frame Creep Correction System Design	2000
Development of Non-metallic Piston Ring Seals for Natural Gas Compressors	2000
Metallic Cloth Mesh Characterization for High Temperature Sealing	(1999 – 2000)
3-D Modeling and Analysis of Gas Turbine Brush Seals	(1998 - 2000)

**General Electric Corporate R&D Center, NY, *Mechanical Engineer* (Consultant), 1992 - 1998**

Provided engineering support to numerous research and development projects. Designed, constructed and operated various test systems that are still in use. Main research work that were supported:

Modeling and Analysis of Various Gas Turbine Seals	(1993 – 1998)
Performance Evaluation of Metallic Cloth Seals	(1993 – 1998)
Low Cycle Fatigue (LCF) Test System Design	(1997)
Ultra-High Speed Circuit Breaker Design for Navy Battle Ships	(1996 – 1997)
High Pressure Static Leakage Test System Design	(1994 – 1995)
Portable Satellite Communication Module Design	(1994 – 1995)

**Rensselaer Polytechnic Institute, Troy, NY, *Graduate Research Assistant*, 1991 - 1998**

Served as research assistant in various projects supported by industrial consortiums and NY State Department of Energy. Research work that were supported:

Computational Analysis of Brush Seal Bristle Interactions with Friction	(1994 – 1998)
Nonlinear Response Surface Modeling of Brush-Rotor Contact Forces	(1997 – 1998)
High Speed Rotary Seal Test System Design and Development	(1996 – 1997)
Performance Evaluation of In-plane Integral Hook Fasteners	(1993 – 1995)
Lumped Parameter Analysis of Powder Injection Molding Process	(1991 – 1993)
Time Series Analysis of Battenfeld CD200/50 Speed-Pressure Response	(1992 – 1993)

**AWARDS and HONORS**

- Elected as President of the ASME International Turkey Section, 2010
- Graduating Class Teaching Award, Sabanci University 2009
- Elected to ASME International Gas Turbine Institute Heat Transfer Technical Committee, 2006
- 22 Patent Awards for Successful Patents, General Electric Corporate R&D, 1998 – 2001
- "Gold Medal" for 20 Successful Patents, General Electric Corporate R&D, 2001
- Management Award, Hydrogen and Oil Sealing Technology, GE Corporate R&D, 2000
- Gas Turbine H Technology Recognition Award, GE Power Systems, 2000
- Management Award, Gas Turbine Hot Gas Path Sealing Technology, GE Corporate R&D, 2000
- "Silver Medal" for 10 Successful Patents, General Electric Corporate R&D, 2000
- Dushman Achievement Award, General Electric Corporate R&D, 1999
- Recruiting Award, General Electric Corporate R&D, 1999
- Green Belt Certification, 1998

## **PUBLICATIONS**

### **Journal Publications:**

#### SCI indexed:

1. Cetinsoy E. and Aksit, M.F., "A Study of Brush Seal Oil Lift Through Short, Long and Finite Bearing Analyses," *Tribology International*, Elsevier, ISSN: 0301-679X, submitted (2015)
2. Duran. E.T. and Aksit, M.F., "Flow and Thermal Analysis of Oil Brush Seals and Investigation of Shear Heating Phenomenon," *Tribology Letters*, Springer, ISSN: 1023-8883, submitted (2015)
3. Aksoy, S., and Aksit, M.F., "A Fully Coupled 3D Thermo-Elastohydrodynamic Model For a Bump-Type Compliant Foil Journal Bearing," *Tribology International*, Vol. 82, pp. 110-122, February (2015)
4. Kaya, A. M., Kandemir, I., Aksit, M.F., and Yigit, K. S., "Investigation of Optimum Working Conditions of a Micro Cross Flow Turbine," *Environmental Progress & Sustainable Energy*, Published online in Wiley Online Library, DOI 10.1002/ep.12112, 23 March (2015)
5. S. Evren, M. Ünel, M. F. Aksit, "Modeling and Control of a Variable Speed Variable Pitch Angle Prototype Wind Turbine," *Mathematical and Computational Applications*, Vol. 18, No. 3, pp. 408-420, (2013).
6. Coskun, M.B., Aksoy, S., Aksit, M.F., "Friction and Wear Characteristics of Haynes 25, 188, and 214 Superalloys Against Hastelloy X up to 540 °C," *Tribology Letters*, Vol. 45, No. 3, pp. 497-503, (2012)
7. Cetinsoy E., Dikyar S., Hancer C., Oner K. T., Sırımoglu E., Ünel M., Aksit M. F., "Design and Construction of a Novel Quad Tilt-Wing UAV," *Mechatronics*, Elsevier, Vol. 22, No. 6, pp. 723-745, (2012)
8. Öner K.T., Çetinsoy E., Sırımoglu E., Hançer C., Ayken T., Ünel M., Aksit M.F., Kandemir I., Gülez K., "Mathematical modeling and vertical flight control of a tilt-wing UAV," *Turk. J. Elec. Eng. & Comp. Sci.*, Vol.20, No.1, pp. 149-157, (2012)
9. Çetinsoy E., Sırımoglu E., Öner K.T., Hançer C., Ayken T., Ünel M., Aksit M.F., Kandemir I., Gülez K., "Design and development of a tilt-wing UAV," *Turk. J. Elec. Eng. & Comp. Sci.*, Vol.19, No.5, pp. 733-741, (2011)
10. Sariibrahimoglu, K., Kizil, H., Aksit, M.F., Efeoglu, I. and Kerpicii, H., "Effect of R600a on Tribological Behavior of Sintered Steel Under Starved Lubrication," *Tribology International*, Vol. 43, pp. 1054–1058, (2010)
11. Doğu, Y. and Aksit, M.F., "Evaluation of Flow Behavior for Clearance Brush Seals," *ASME Journal of Engineering for Gas Turbines and Power*, Vol. 130, pp. Vol.1, (2008)
12. Doğu, Y. and Aksit, M.F., "Brush Seal Temperature Distribution Analysis," *ASME Journal of Engineering for Gas Turbines and Power*, Vol. 128, pp. 599-609, (2006)
13. Doğu, Y. and Aksit, M.F., "Effects of Geometry on Brush Seal Pressure and Flow Fields: I. Front Plate Configurations," *ASME Journal of Turbomachinery*, Vol. 128, pp. 367-378, (2006)
14. Doğu, Y. and Aksit, M.F., "Effects of Geometry on Brush Seal Pressure and Flow Fields: II. Backing Plate Configurations," *ASME Journal of Turbomachinery*, Vol. 128, pp. 379-389, (2006)
15. Aksit, M.F., R.E. Chupp, O.S. Dinç, and M. Demiroğlu, "Advanced Seals for Industrial Turbine Applications: Design Approach and Static Seal Development," *AIAA Journal of Propulsion and Power*, Vol. 18, pp. 1254-1259, (2002).
16. Chupp, R.E., F. Gashripor, N.A. Turnquist, M. Demiroğlu, and M.F. Aksit, "Advanced Seals for Industrial Turbine Applications: Dynamic Seal Development," *AIAA Journal of Propulsion and Power*, Vol. 18, pp. 1260-1266, (2002).
17. Aksit, M.F., and J.A. Tichy, "Wear of Brush Seals: Background and New Modeling Approach," *STLE Tribology Transactions*, Vol. 41, pp. 368-374, (1998).

18. Aksit, M.F., and D. Lee, "A Lumped Parameter Analysis of Powder Injection Molding," *Int. J. Powder Metallurgy*, Vol. **31**, No.4, pp. 351-363, (1995).

#### Other Journal Publications:

19. Aksit M.F., "Wind Turbine Manufacturing Infrastructure in Turkey", *The Energy Report*, Vol.2, No. 15, pp. 36-43, (2011)
20. Aksoy S., Akcan C., Aksit M.F., "Leakage Performance of a Novel Turbomachinery Shaft Seal", *Journal on Power and Energy Engineering*, Vol.1, No.4, pp.139-143, (2010)
21. Aksit M.F., "Seeking Design Solutions Through Decoupling Problems – A Global Engineering Example", *ME Today, ASME International*, Online Journal, Academic/Industry Perspectives, Vol.11, March issue (2010)

#### Journal Publication Work In-Progress:

22. Aksit, M.F., Coskun, M.B., and Aksoy, S., "Friction and Wear at Elevated Temperatures – Part 1: 400-599°C," *work in progress*
23. Coskun, M.B., Aksoy, S., and Aksit, M.F., "Friction and Wear at Elevated Temperatures – Part 2: 600°C and Beyond," *work in progress*

#### Conference Publications:

1. Duran. E.T., Aksit, M.F., and Ozmusul M.S., "CAE Based Brush Seal Characterization for Stiffness and Stress Levels," *Proc. ASME Turbo Expo 2015 Technical Congress*, June 15-19, 2015, Montreal, Canada, **ASME Paper GT2015-44068**, 2015.
2. Duran. E.T., Aksit, M.F., and Ozmusul M.S., "Brush Seal Structural Analysis and Correlation With Tests for Turbine Conditions," *Proc. ASME Turbo Expo 2015 Technical Congress*, June 15-19, 2015, Montreal, Canada, **ASME Paper GT2015-44067**, 2015.
3. Duran. E.T., Aksit, M.F., and Ozmusul M.S., "Brush Seal Free State Stiffness Analyses, Tests and Inspection on Dynamic Effects," *Proc. ASME Turbo Expo 2015 Technical Congress*, June 15-19, 2015, Montreal, Canada, **ASME Paper GT2015-44069**, 2015.
4. Pehlivan A.S., and Aksit M.F., "Fatigue Analysis Approach of a 500kW Wind Turbine Main Load Frame," *2013 International Conference on Renewable Energy Research and Applications (ICRERA)*, 20-23 October, Madrid, Spain, IEEE Publication, DOI 10.1109/ICRERA.2013.6749786, pp. 389 – 394, 2013
5. Pehlivan A.S., and Aksit M.F., "Topology optimization of a 500kW wind turbine main load frame," (IEEE) *4th International Conference on Power Engineering, Energy and Electrical Drives (PowerEng 2013)*, Istanbul, Turkey, 13-17 May 2013.
6. Evren S., Ünel M., and Aksit M.F., "Modeling and Control of a Variable Speed Variable Pitch Angle Prototype Wind Turbine," *4th International Conference on Mathematical and Computational Applications (ICMCA2013)*, Manisa, Turkey, 11-13 June 2013.
7. Aksit M.F., "Brush Seals and Common Issues In Brush Seal Applications," Keynote paper, *NATO Research and Technology Organisation AVT-188 "Specialists Meeting on "Advanced Lubrication Systems for Gas Turbine Engines" STO-MP-AVT-188 AC/323(AVT-188)TP/486*, Biarritz, France, **RTO-AVT-188-KN4**, 2012.
8. Aksit M.F., "Evaluation of Brush Seals for Oil Sealing Applications," *NATO Research and Technology Organisation AVT-188 "Specialists Meeting on "Advanced Lubrication Systems for Gas Turbine Engines" STO-MP-AVT-188 AC/323(AVT-188)TP/486*, Biarritz, France, **RTO-AVT-188-04**, 2012.
9. Evren S., Ünel M., Adak O.K., Erbatur K., and Aksit M.F., "Modeling and simulation of a horizontal axis wind turbine using S4WT," *International Conference on Renewable Energy Research and Applications (ICRERA2012)*, Nagasaki, Japan, 11-14 November 2012.

10. Cevik G., and Aksit M.F., "Hibrid Karting Araba Kontrolcüsü ve Enerji Depolama Elemanlarının Karşılaştırılması," *Proceedings of Turkish Automatic Control Conference (TOK2012)*, October, Nigde, Turkey, 2012. (in Turkish)
11. Evren S., Ünel M., Adak O.K., Erbatur K., and Aksit M.F., "Prototip bir rüzgar türbininin S4WT ortamında modellenmesi, denetimi ve benzetimi," *Proceedings of Turkish Automatic Control Conference (TOK2012)*, October, Nigde, Turkey, 2012. (in Turkish)
12. Aksoy S., M Coskun M.B. and Aksit M.F., "A Fully Coupled 3D Finite Element Analysis for a Bump-type Compliant Foil Journal Bearing," *STLE/ASME International Joint Tribology Conference*, Los Angeles,, California (USA), **ASME Paper IJTC2011-61066**, 2011.
13. Coskun M.B., Aksoy S., Basaran N., and Aksit M.F., "Friction and Wear Characteristics of H25, H188, H214 Against HastelloyX," *STLE/ASME International Joint Tribology Conference*, Los Angeles, California (USA), **ASME Paper IJTC2011- 61110**, 2011.
14. Dogan H. and Aksit M.F., "Aerodynamic Performance Sensitivity Analysis of Blade Design for a 100 kW HAWT," *10th International Conference on Sustainable Energy Technologies SET 2011*, 4-7 September, Istanbul, Turkey, 2011.
15. Cevik G. Aksit M.F., and Sabanovic A., "Piezoelectric Wind Power Harnessing – An Overview," *10th International Conference on Sustainable Energy Technologies SET 2011*, 4-7 September, Istanbul, Turkey, 2011.
16. Aksit M.F. and Makaraci M., "An Overview of Wind Turbine Manufacturing Experience in Turkey", *International Renewable Energy Conference and Exhibition (IRENEC 2011)*, Istanbul, Turkey, 2011.
17. Coskun, M.B. and Aksit, M.F., "A Brief Overview on High Temperature Friction and Wear," *STLE/ASME International Joint Tribology Conference*, San Francisco, California (USA), **ASME Paper IJTC2010-41297**, October 17-20, 2010.
18. Aksoy, S., Aksit M.F., and Dogu Y., "A Simple FEM Model for Foil Bearings Under Differential Pressure," *STLE/ASME International Joint Tribology Conference*, San Francisco, California (USA), **ASME Paper IJTC2010-41257**, October 17-20, 2010.
19. Coskun, M.B., Aksoy, S., and Aksit, M.F., "Ultra High Temperature Linear Reciprocating Tribometer," *STLE/ASME International Joint Tribology Conference*, San Francisco, California (USA), **ASME Paper IJTC2010-41346**, October 17-20, 2010.
20. Dal, M, Kaya, A.M., Aksit, M.F., Yigit, S.K., Kandemir, I., and Yuksel, E. "A Hardware Test Setup for Grid Connected and Island Operation of Micro Hydro Power Generation Systems," *IEEE Energy Conference & Exhibition ENERGYCON 2010*, Paper No. 1569329063, December 18-22, Manama, Bahrain, 2010.
21. Aksoy, S., and Aksit, M.F., "Evaluation of Pressure-Stiffness Coupling in Brush Seals," *46th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit*, AIAA Paper AIAA-2010-6831, Nashville, TN, USA, 2010.
22. Duran, E. T. and Aksit, M.F., "Effect of Shear Heat on Hydrodynamic Lift of Brush Seals in Oil Sealing," *The STLE 65th Annual Meeting & Exhibition*, Atlanta, GA, USA, 2010
23. Aksoy S., Akcan C., Aksit M.F., "Leakage Performance of a Novel Turbomachinery Shaft Seal", *Proceedings of The World Congress on Power and Energy Engineering*, WCPEE'09, October 5-8, Cairo, Egypt, 2009
24. Aksit, M.F., Kizil, H., Efeoglu, I., Sariibrahimoglu, K., "Wear Performance Of Titanium And Niobium Added MoS<sub>2</sub> Coatings Under Isobutane Exposure," *Proceedings of STLE/ASME International Joint Tribology Conference*, Memphis, Tennessee, USA, **ASME Paper IJTC2009-15209**, 2009.
25. Aksoy S., Aksit M.F., and Duran E.T., "Brush seal performance measurement system," *STLE/ASME International Joint Tribology Conference*, Memphis, Tennessee, USA, **ASME Paper IJTC2009-15275**, 2009.

26. Öner K. T., Çetinsoy E., Sırımoğlu E., Ayken T., Ünel M., Aksit M. F., Kandemir İ., Gülez K., “Döner-Kanat Mekanizmasına Sahip Yeni Bir İnsansız Hava Aracının (SUAVİ) Modellenmesi ve Kontrol,” *Proceedings of Turkish Automatic Control Conference (TOK2009)*, Istanbul, 13-16 October, 2009, (in Turkish)
27. Çetinsoy E., Sırımoğlu E., Öner K. T., Ayken T., Hançer C., Ünel M., Aksit M. F., Kandemir İ., Gülez K., “Yeni Bir İnsansız Hava Aracının (SUAVİ) Prototip Üretimi ve Algılayıcı-Eyleyici Entegrasyonu,” *Proceedings of Turkish Automatic Control Conference (TOK2009)*, Istanbul, 13-16 October, 2009, (in Turkish) (Best Paper Award)
28. Duran E.T., and Aksit, M.F., “A study of brush seal oil pressure profile including temperature-viscosity effects,” *44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit*, Reston, VA, USA, **AIAA Paper AIAA-2008-4622**, 2008.
29. Öner K. T., Çetinsoy E., Ünel M., Aksit M. F., Kandemir İ., Gülez K., “Dynamic Model and Control of a New Quadrotor Unmanned Aerial Vehicle with Tilt-Wing Mechanism,” *Proceedings of International Conference on Control, Automation, Robotics and Vision (ICCARV’08)*, Laval, France, November 21-23, also published by WASET, 2008.
30. Sariibrahimoglu, K., Kizil, H., Aksit, M.F., Efeoglu, I. and Kerpicci, H., “Tribological Behavior of Sintered Steel Under Starved Lubrication in R600A Environment,” *2nd International Conference on Advanced Tribology, iCAT 2008*, Singapore, **iCAT 2008 Paper 169**, 2008.
31. Akcan C., Aksit M.F., Aksoy S., and Yuksel E., “Response surface modeling of a small crossflow hydro turbine rotor,” *Hidroenergiya 2008: International Conference on Small Hydropower*, Bled, Slovenia, 2008.
32. Sariibrahimoglu K., Kizil H., Aksit M.F., Efeoglu I., and Birol F.S., “A study on wear rates of 100Cr6 steel running against sintered steel surfaces under dry and starved lubrication,” *The 47th Annual Conference of Metallurgists, COM2008*, Montréal, Québec, Canada, 2008.
33. Akcan C., Aksit M.F., Kiziltas G., and Kandemir I., “Optimization scheme for a small cross-flow hydro turbine runner,” *13th International Conference On Applied Mechanics And Mechanical Engineering - AMME-13*, Cario, Egypt, **AMME13-Paper-117**, 2008.
34. Baran E.A., Hançer C., Çalikoğlu E., Duman E., Çetinsoy E., Ünel M., and Aksit M.F., “İnsansız hava araçları için test düzeneği tasarımı ve üretimi,” *Proceedings of Turkish Automatic Control Conference (TOK2008)*, Vol.1, pp.82-87, Istanbul, 13-15 November, 2008, (in Turkish)
35. Çetinsoy E., Öner K.T., Kandemir I., Aksit M.F., Ünel M., and Gülez K., “Yeni bir insansız hava aracının (SUAVİ) mekanik ve aerodinamik tasarımı,” *Proceedings of Turkish Automatic Control Conference (TOK2008)*, Vol.2, pp.890-896, Istanbul, 13-15 November, 2008, (in Turkish)
36. Aksit M.F., “3-D analysis of high density brush stiffness with friction-pressure coupling,” *Proceedings of VI. Turkish Abaqus Users Conference (TAKT 2008)*, pp. **317**, Istanbul, 2008.
37. Çetinsoy E., Ünel M., Kandemir I., Aksit M.F. and Gülez K., “Yeni bir insansız hava aracının (SUAVİ) dikey uçuş kipi için dinamik modeli ve yörünge kontrolü,” *Proceedings of Turkish Automatic Control Conference (TOK2008)*, Vol.1, pp.92-97, Istanbul, 13-15 November, 2008, (in Turkish)
38. Aksit, M.F., Tichy J.A., and Dinc, O.S., “Brush Seal Bristle Wear Analysis,” *Proceedings of STLE/ASME International Joint Tribology Conference*, San Diego, California USA, **ASME Paper IJTC2007-44351**, 2007.
39. Duran E.T., Aksit M.F., and Dogu Y., “Oil Temperature Analysis Of Brush Seals,” *Proceedings of STLE/ASME International Joint Tribology Conference*, San Diego, California USA, **ASME Paper IJTC2007-44397**, 2007.
40. Aksit M.F., “3-D Analysis of a High Density Brush With Frictional Contact Interactions,” *Proceedings of V. Turkish Abaqus Users Conference (TAKT 2007)*, Istanbul, 2007.
41. Cetinsoy E., Aksit, M.F., and Kandemir I., “A Study of Brush Seal Oil Lift Through Long Bearing Analysis,” *Proceedings of STLE/ASME International Joint Tribology Conference*, San Antonio, Texas, **ASME Paper IJTC2006-12370**, 2006.

42. Duran, E. T., Aksit, M.F., and Doğu, Y., "Effect of Shear Heat on Hydrodynamic Lift of Brush Seals in Oil Sealing," *Proc. 42nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit*, Sacramento, California, **AIAA Paper AIAA-2006-4755**, 2006
43. Aksit, M.F., Doğu, Y., Kandemir I. and Kızıl H., "An Investigation of Pressure Stiffness Coupling In Brush Seals," *Proc. Eleventh Int. Symp. on Transport Phenomena and Dynamics of Rotating Machinery*, Honolulu, HI, **Paper # ISROMAC-11-4**, 2006.
44. Birol F. S., Kerpici H., Erguler M., Ozkadi F., and Aksit, M.F., "Wear Evaluation Of 100cr-6 Against Iron-Based Sintered Alloys For Lubricated Contacts," *WTC2005 World Tribology Congress III*, Washington, D.C., **ASME Paper WTC2005-64088**, 2005.
45. Doğu, Y. and Aksit, M.F., "Brush Seal Temperature Distribution Analysis," *Proc. ASME Turbo Expo 2005 Technical Congress*, Reno, NV, **ASME Paper GT2005-69120**, 2005.
46. Aksit, M.F., Doğu, Y., J.A. Tichy and Gürsoy M., "Hydrodynamic Lift of Brush Seals In Oil Sealing Applications," *Proc. 40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit*, Fort Lauderdale, Florida, **AIAA Paper AIAA-2004-3721**, 2004. (Best Paper Award)
47. Ongun, R. , Aksit M.F., and Göktuğ G., "A Simple Model for Wear of Metal Cloth Seals," *Proc. 40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit*, Fort Lauderdale, Florida, **AIAA Paper AIAA-2004-3892**, 2004.
48. Bhate N., Thermos A.C., Aksit M.F., Demiroğlu M., and Kızıl H., "Non-metallic Brush Seals for Gas Turbine Bearings," *Proc. ASME Turbo Expo 2004 Technical Congress*, Vienna, **ASME Paper GT2004-54296**, 2004.
49. Aksit, M.F., "Analysis of Brush Seal Bristle Stresses With Pressure-Friction Coupling," *Proc. ASME Turbo Expo 2003 Technical Congress*, Atlanta, Georgia, **ASME Paper GT2003-38718**, 2003.
50. Aksit, M.F., Bhate N., Bouchard C.G. Jr., M. Demiroğlu M., and Dogu Y., "Evaluation of Brush Seal Performance for Oil Sealing Applications," *Proc. 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference*, Huntsville, Alabama, **AIAA Paper 03-4695**, 2003.
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#### **Patents Publications:**

Most of my patented sealing technology solutions have been applied/installed in many Aircraft Engines and Gas & Steam Turbines all around the world. Majority of my patents are filed in many countries due to their commercial value. Some patents have been filed only in some specific countries. I have patents disclosures in 17 different countries. In the patents list below WO code indicates World Intellectual Property Organization Global PCT number, and EP code indicates European Patent Disclosure number. Similarly, TR indicates Turkish Patent, US indicates United States Patent, DE indicates German Patent, FR indicates French Patent, CA indicates Canadian Patent, GB indicates British Patent, KR indicates Korean Patent, CZ indicates Czech Patent, CN indicates Chinese Patent, JP indicates Japanese Patent, RU indicates Russian Patent, IN indicates Indian Patent, IT indicates Italian Patent, AU indicates Australian Patent, AT indicates Austrian Patent, TW indicates Taiwanese Patent. To avoid confusion rising from different patent issue dates at different countries, patent list has been presented based on "Priority Date" representing first filing date (sorted from latest to earliest). Some patents in the

list appear with same name but with different patent numbers. These are patents for alternate solutions for the same technological problem. Detailed information for all my listed patents can be found at global patent database of European Patent Office public website on "<http://www.epo.org/searching/free/espacenet.html>".

1. Brush Seal For High Pressure Applications, Inventor: Aksit Mahmut Faruk [TR], Applicant: SDM Siradisi Arge Ve Mühendislik Sanayi Ticaret Ltd Sirketi [TR], CPC: F16J15/3288, IPC: F16J15/32, Publication info: WO2014014426 (A2) 2014-01-23, WO2014014426 (A3), 2014-03-13, Priority date: 2012-06-28  
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2. Çapraz Akış Türbinlerinde Sürgülü Vana Ile Güç Kontrolü, Inventor: Alaattin Metin Kaya [TR], Ebubekir Yüksel [TR], İlyas Kandemir [TR], Mahmut Faruk Akşit [TR]; Applicant: Gebze Yüksek Teknoloji Enstitüsü [TR], IPC: F03B3/00, Publication info: TR 2012/05779 2013-12-23, Priority date: 2012-05-17
3. Her İki Taraftan Otomatik Yükleme Tek Kuleli Lastikten Hidrolik Sıkıştırılmalı Çekici, Inventor: Aksit Mahmut Faruk [TR], Cavrar Muzaffer [TR], Applicant: Miles Makina Sanayi Ve Ticaret [TR], IPC: B60S9/00, Publication info: TR2008/00584 (A2) 2009-07-21, Priority date: 2008-01-29
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27. Supplemental Seal For The Chordal Hinge Seal In A Gas Turbine, Inventor: Mohammed-Fakir Abdul-Azeez [US], Aksit Mahmut Faruk [TR] (+2); Applicant: Mohammed-Fakir Abdul-Azeez, Aksit Mahmut Faruk, (+3); Publication info: US2003123980 (A1) 2003-07-03, US6609885 (B2) 2003-08-26; Priority date: 2001-12-28  
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28. Supplemental Seal For The Chordal Hinge Seals In A Gas Turbine, Inventor: Mohammed-Fakir Abdul-Azeez [US], Aksit Mahmut Faruk [TR] (+3); Applicant: Mohammed-Fakir Abdul-Azeez, Aksit Mahmut Faruk, (+4); Publication info: US2003123981 (A1) 2003-07-03, US6595745 (B1) 2003-07-22; Priority date: 2001-12-28  
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32. Pressure Activated Cloth Seal, Inventor: Aksit Mahmut Faruk [US]; Benoit Jeffrey Arthur [US] (+1), Applicant: Aksit Mahmut Faruk, Benoit Jeffrey Arthur, Mohammed-Fakir Abdul-Azeez, General Electric Company; Publication info: US2002079654 (A1) 2002-06-27, US6502825 (B2) 2003-01-07; Priority date: 2000-12-26  
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34. Supplemental Seal For The Chordal Hinge Seal In A Gas Turbine; Inventor: Mohammed-Fakir Abdul-Azeez [US]; Aksit Mahmut Faruk [TR] (+2); Applicant: Mohammed-Fakir Abdul-Azeez, Aksit Mahmut Faruk, (+3); Publication info: US2003123980 (A1) 2003-07-03, US6609885 (B2) 2003-08-26; Priority date: 2001-12-28  
Also Published As: US6609885 (B2), US6609885 (X6), EP1323896 (A2), EP1323896 (A3), EP1323896 (B1), KR20030057427 (A), KR20030057427 (A), KR100767892 (B1), KR100767892 (B1), JP2003227354 (A), JP2003227354 (A), JP4130579 (B2), JP4130579 (B2), DE60213946 (T2)
35. Seal For Gas Turbine Nozzle And Shroud Interface, Inventor: Aksit Mahmut Faruk [TR]; Safi Ahmad [US] (+7); Applicant: Aksit Mahmut Faruk [TR]; Safi Ahmad [US] (+8); Publication Info: US2003122325 (A1) 2003-07-03, US6659472 (B2) 2003-12-09; Priority date: 2001-12-28  
Also Published As: US6659472 (B2), US6659472 (X6), EP1327748 (A1), EP1327748 (B1), KR20030057410 (A), KR20030057410 (A), KR100681560 (B1), KR100681560 (B1), JP2003227355 (A), JP2003227355 (A), JP4139213 (B2), JP4139213 (B2), DE60208870 (T2)
36. Actuated Brush Seal, Inventor: Dinc Osman Saim [US]; Turnquist Norman Arnold [US], Demiroglu Mehmet [US]; Sarshar Hamid Reza [US]; Safi Ahmad [US]; Aksit Mahmut Faruk [US] (+8), Applicant: Gen Electric [US], Publication Info: US2003102630 (A1) 2003-06-05, US6786487 (B2) 2004-09-07, Priority date: 2001-12-05
37. Brush Seal Coil For Rotary Machinery And Method Of Retrofitting, Inventor: Bhate Nitin [US]; Aksit Mahmut Faruk [TR], Applicant: Gen Electric [US], Publication Info: US2003102629 (A1) 2003-06-05, US6612581 (B2) 2003-09-02, Priority date: 2001-12-04
38. Spring-Backed Abradable Seal For Turbomachinery, Inventor: Turnquist Norman Arnold [US]; Aksit Mahmut Faruk [US] (+2), Applicant: Gen Electric [US], Publication Info: US2002192074 (A1) 2002-12-19, US6547522 (B2) 2003-04-15; Priority date: 2001-06-18  
Also Published As: US6547522 (B2), US6547522 (X6), EP1270876 (A2), EP1270876 (A3), EP1270876 (A3), KR20020096941 (A), KR100733175 (B1), RU2319017 (C2), JP2003065076 (A)
39. Flexible Cloth Seal For Turbine Combustors, Inventor: Aksit Mahmut Faruk [US]; Benoit Jeffrey Arthur [US] (+3), Applicant: Gen Electric [US], Publication Info: US2002121744 (A1), 2002-09-05, Priority date: 2001-03-05  
Also Published As: EP1239118 (A2), EP1239118 (A3), EP1239118 (B1), JP2002339706 (A), JP2002339706 (A), JP4020661 (B2), JP4020661 (B2)
40. Apparatus For Cooling Brush Seals And Seal Components, Inventor: Aksit Mahmut Faruk [US]; Dinc Osman Saim [US], Applicant: Gen Electric [US], Publication Info: US2002105145 (A1) 2002-08-08, US6533284 (B2) 2003-03-18; Priority date: 2001-02-06  
Also Published As: US6533284 (B2), EP1229275 (A1), KR20020065382 (A), CN1369620 (A), RU2288393 (C2), JP2002303102 (A)
41. Brush Seal With Positive Adjustable Clearance Control, Inventor: Aksit Mahmut Faruk [US], Dinc Osman Saim [US] (+2), Applicant: Gen Electric, Publication info: US2002074729 (A1) 2002-06-20, US6435514 (B1) 2002-08-20, Priority date: 2000-12-15  
Also Published As: US6435514 (B1), EP1215423 (A2), EP1215423 (A3), EP1215423 (B1), JP2002206643 (A), DE60124204 (T2), CZ20014448 (A3), KR20020048297 (A), KR20020048297 (A), KR100825193 (B1), KR100825193 (B1)
42. Low Leakage Snout Sealing System, Inventor: Chi Wei-Ming [US]; Turnquist Norman Arnold [US]; Wolfe Christopher Edward [US]; Florin Mark Arne [US]; Aksit Mahmut Faruk [US]; Applicant: Gen Electric [US], Publication Info: US6454270 (B1) 2002-09-24; Priority date: 2000-12-14
43. Flexible Magnetic Rubber Brush Seal For Generators, Inventor: Tong Wei [US]; Mayer Robert Russell [US], Aksit Mahmut Faruk [US], Applicant: Gen Electric [US], Publication Info: US6464230 (B1) 2002-10-15, Priority date: 2000-10-19
44. Ventilated Trickle Seal, Inventor: Mayer Robert Russell [US]; Bagepalli Bharat Sampathkumara, Aksit Mahmut Faruk [US], Applicant: Gen Electric [US], Publication Info: US6685190 (B1) 2004-02-03, Priority date: 2000-10-17

- Also Published As: WO0233294 (A2), WO0233294 (A3), EP1290366 (A2), EP1290366 (B1), JP2004511740 (A), JP4226322 (B2), DE60124249 (T2)
45. Apparatus And Methods For Determining Natural Frequencies Of Brush Seals, Inventor: Aksit Mahmut Faruk; Demiroglu Mehmet (+2), Applicant: Gen Electric [US], Publication Info: US6378371 (B1) 2002-04-30; Priority date: 2000-09-29  
Also Published As: WO0229292 (A2), WO0229292 (A3), CN1392935 (A), AU9267801 (A), JP2004510969 (A), GB2375377 (A), RU2002113923 (A), AU200192678 (A), KR2002060762 (A)
  46. Seal for water-cooled electrical generator has brush seal between rotor and housing wall between water-filled internal hollow space and seal hollow space, Inventor: Mayer Robert Russell [US]; Bagepalli Bharat Sampathkumar [US]; Aksit Mahmut Faruk [US], Applicant: Gen Electric [US], Publication Info: DE10126826 (A1) 2002-01-17; Priority date: 2000-06-02  
Also Published As: JP2002095202 (A) 2002-03-29
  47. Low flow fluid film seal for hydrogen cooled generators, Inventor: Mayer Robert Russell [US]; Bagepalli Bharat Sampathkumara [US]; Aksit Mahmut Faruk [US], Applicant: GEN ELECTRIC [US], Publication info: US6378873 (B1) 2002-04-30, Priority date: 2000-06-02  
Also Published As: DE10125634 (A1), JP2002010563 (A)
  48. Rotary Machine Having a Seal Assembly, Inventor: Aksit Mahmut Faruk; Chupp Raymond Edward (+1), Applicant: Gen Electric, Publication Info: US6340286 (B1) 2002-01-22, Priority date: 1999-12-27  
Also Published As: EP1113146 (A2), EP1113146 (A3), EP1113146 (B1), JP2001234705 (A), JP2001234705 (A), JP4502240 (B2), JP4502240 (B2)
  49. Brush Seal And Segment For Rotary Machines Such As Turbines, Inventor: Dinc Osman Saim [US]; Aksit Mahmut Faruk [US] (+2), Applicant: Gen Electric [US], Publication Info: EP1113201 (A2) 2001-07-04, EP1113201 (A3) 2003-04-16, EP1113201 (B1) 2006-05-31; Priority date: 1999-12-27  
Also Published As: EP1113201 (A3), EP1113201 (B1), DE60028335 (T2), JP2001248405 (A)
  50. Brush Sealing And Rotary Machine, Inventor: Bagepalli Bharat Sampathkumar [US]; Aksit Mahmut Faruk [US] (+1), Applicant: Gen Electric [US], Publication Info: CZ9903343 (A3) 2000-04-12; Priority date: 1999-09-20
  51. Diode Bridge For Rapid Transfer Of Current Includes Direct Assembly With Bus Bars To Minimise Inductance And Resistance, Inventor: Korman Charles Steven; Park John Norton; Clock Allen William; Aksit Mahmut Faruk; Applicant: Gen Electric [US], Publication Info: FR2797359 (A1) 2001-02-09; Priority date: 1999-08-02
  52. Brush Seal Having Secured Bristles, Inventor: Aksit Mahmut Faruk [US]; Dinc Osman Saim [US] (+1), Applicant: Gen Electric [US], Publication Info: EP1070887 (A2) 2001-01-24, EP1070887 (A3) 2002-08-21; Priority date: 1999-07-22
  53. Brush Seal Segment With Bristle Damping, Inventor: Dinc Osman Saim [US]; Albers Robert Joseph [US]; Demiroglu Mehmet [US]; Proctor Robert [US]; Aksit Mahmut Faruk [US]; Battle Michael Eugene [US]; Applicant: Gen Electric [US], Publication Info: EP1052438 (A2) 2000-11-15, EP1052438 (A3) 2002-02-06; Priority date: 1999-05-13  
Also Published As: JP2001073708 (A) 2001-03-21
  54. Brush Seal And Rotary Machine Including Such Brush Seal, Inventor: Bagepalli Bharat Sampathkumar [US]; Aksit Mahmut Faruk [US] (+1), Applicant: Gen Electric [US], Publication info: US6257588 (B1) 2001-07-10; Priority date: 1998-09-22  
Also Published As: EP0989341 (A2), EP0989341 (A3), TW449649 (B), JP2000154875 (A), CA2282006 (A1), CA2282006 (C), KR20000023252 (A), KR20000023252 (A), KR100744588 (B1), KR100744588 (B1)
  55. Turbine spline seal and turbine assembly containing such spline seal, Inventor: Bagepalli Bharat Sampathkumar [US]; Aslam Sami [US]; Bedell Leslie Boyd [US]; Aksit Mahmut Faruk [US]; Publication info: US6162014 (A) 2000-12-19; Priority date: 1998-09-22

Also Published As: EP0989287 (A2), EP0989287 (A3), KR20000023246 (A), JP2000136731 (A), TW399120 (B), CZ9902487 (A3)

56. Flexible Cloth Seal Assembly, Inventor: Bagepalli Bharat Sampathkumar [US]; Taura Joseph Charles [US]; Aksit Mahmut Faruk [US] (+2), Applicant: Gen Electric [US], Publication Info: US5915697 (A) 1999-06-29, Priority date: 1997-09-22

Also Published As: EP0903519 (A1), EP0903519 (B1), DE69817112 (T2), JPH11182684 (A), JP4212156 (B2), JP4212156 (B2)

57. Gas-Path Leakage Seal For A Turbine, Inventor: Bagepalli Bharat Sampathkumara [US]; Aksit Mahmut Faruk [US]; Farrell Thomas Raymond [US], Applicant: Gen Electric [US], Publication Info: US5934687 (A) - 1999-08-10, Priority date: 1997-07-07

58. Gas-Path Leakage Seal For A Gas Turbine, Inventor: Wolfe Christopher E [US]; Dinc Osman S [US]; Wolfe Christopher E [US]; Dinc Osman S [US]; Bagepalli Bharat S [US]; Correia Victor H [US]; Aksit Mahmut F [US], Applicant: Gen Electric [US], Publication Info: US5509669 (A) 1996-04-23; Priority date: 1995-06-19

### **INVITED/KEYNOTE SPEECH**

- Invited Speech/Presentation, “*TEI - Opportunities and Challenges*”, The 33rd Annual Conference of the American Turkish Council – Defense Turkey, Washington DC, June 2014.
- Invited Speech/Presentation, “*Turkish Aircraft Engine Industries – Overview*”, V. National Aviation and Space Conference (UHUK 2014), Kayseri, Turkey, September 2014.
- Keynote Speech, “*Brush Seals and Common Issues In Brush Seal Applications*,” NATO Research and Technology Organization AVT-188 “Specialists Meeting on “Advanced Lubrication Systems for Gas Turbine Engines”, Biarritz, France, 2012.
- Invited Speech/Presentation, “*Developments in Wind Turbine Manufacturing in Turkey*”, ICCI 2011 International Energy & Environment Fair & Conference, Istanbul, Turkey, June 2011.
- Invited Speech/Presentation, “*Progress in Development of National Wind Turbine Technologies*”, TIREC 2011 Turkish International Renewable Energy Congress, Istanbul, Turkey, September 2011.
- Invited Speech/Presentation, “*Nuclear Energy and the Electric Power Future of Turkey*”, Panel on “The Electric Power Future of Turkey”, organized by Firat University, Elazığ, Turkey, October 2011,
- Invited Speech/Presentation, “*Global Nuclear Policies and Turkey*”, Panel on “Global Trends in Nuclear Energy and Turkish Agenda”, organized by Global Energy Organization, Ankara, Turkey, January 2010
- Invited Speech/Presentation, “*Production of Wind Energy Systems in Turkey*”, ICCI 2009 International Energy & Environment Fair & Conference, Istanbul, Turkey, May 2009.
- Invited Speech/Presentation, “*Scenarios on the Future of Wind Energy Sector in Turkey*”, International Energy Congress 2009, Ankara, Turkey, October 2009
- Invited Speech/Presentation, “*Wind Turbines Production Infrastructure*”, Panel on “Energy Applications and New Business Opportunities”, organized by OSTIM, Ankara, Turkey, June 2009.

### **PROFESSIONAL ACTIVITIES**

- Chairman of the Executive Board for “ESAC Eskisehir Aviation Association”, 2014 - Present
- Member of Editorial Board for Sigma Journal of Engineering and Natural Sciences, ISSN: 1304-7191, 2011 – Present
- Member of “Ministry of Defense Aerospace Systems Technology Panel”, 2014 - Present
- Member of the Executive Board for “SASAD Defense and Aerospace Industry Manufacturers Association”, 2014 - Present
- Member of Advisory Committee for “ARINKOM Anadolu University R&D and Innovation Coordination Center”, 2014 – Present



- Member of the Executive Board for “EUAS Turkish Electric Power Generation Co.”, 2007 - Present
- Member of ASME Gas Turbine Heat Transfer Technical Committee, May 2006 - Present
- Member of the Evaluation Committee for “Future Flight Design Competition (FFD 2015)”
- Member of Advisory Board for “VIII. National Aircraft, Aviation and Space Engineering Congress”, 2014
- Session Chair “14-6 Experimental Test Techniques II Session”, ASME Turbo Expo Conference, June 3-7, 2013, San Antonio, Texas, USA
- Session Chair “12-8 Compliant and Static Seals Session”, ASME Turbo Expo Conference, June 11-15, 2012, Copenhagen, Denmark
- Session Chair “12-1 Compliant Seals Session”, ASME Turbo Expo Conference, June 6-11, 2011, Vancouver, Canada
- President of ASME Turkey Section, 2010 - 2011
- Session Co-Chair of “11-6 Oil Systems and Seals Session”, ASME Turbo Expo Conference, June 14-18, 2010, Glasgow, UK
- Vice President and Member of the Executive Committee for ASME International Turkey Section, 2009 - 2010
- Session Co-Chair of “11-5 Seals Session”, ASME Turbo Expo 2009: Power for Land, Sea and Air. June 8-12, 2009, Orlando, USA.
- Session Chair of “11-7 Oil Systems II - Bearing Compartments”, ASME Turbo Expo 2008: Power for Land, Sea, and Air, June 9–13, 2008, Berlin, Germany
- Session Co-Chair of “11-3 Labyrinth, Brush, Leaf, and Hybrid Seals Session”, ASME Turbo Expo 2008: Power for Land, Sea, and Air, June 9–13, 2008, Berlin, Germany
- Member for the Executive Committee of the ASME International Turkey Section, 2007 – 2011
- Chair of the Membership Support Committee for ASME International Turkey Section, 2007 - 2009
- Session Co-Chair of “12-2 Seals 2 Session”, ASME Turbo Expo 2007: Power for Land, Sea, and Air, May 14–17, 2007, Montreal, Canada
- Member of Scientific Committee at 3rd National Hydrogen Energy Conference, UHK 2006
- Session Co-chair of “12-2 Brush & Contact Seals Session” at ASME Turbo Expo Conference, May 8-11, 2006, Barcelona, Spain
- Chair of Editorial Committee at INGAS2005 International Natural Gas Symposium, March 31, 2005, Istanbul
- Member of Honors and Advisory Committee at INGAS2005 International Natural Gas Symposium, March 31, 2005, Istanbul
- Session Chair at INGAS2005 International Natural Gas Symposium, March 31, 2005, Istanbul
- Member of International Advisory Board of World Tribology Congress, 2004
- Vice President and Member of the Executive Board, Kazakh-Turk Center for Renewable Sources of Energy, 2001 – 2003

## **REVIEWER DUTIES**

Reviewed numerous papers to be published by

- *ASME Journal of Tribology*
- *ASME Journal of Gas Turbines and Power*,
- *ASME Journal of Turbomachinery*
- *AIAA Journal of Propulsion and Power*.
- ASME-IGTI International Gas Turbine Institute Turbo Expo Conference
- INGAS International Gas Symposium
- TOK Turkish Automation-Control National Congress (Otomatik Kontrol Ulusal Toplantısı)
- UHK National Hydrogen Congress (Ulusal Hidrojen Enerjisi Kongresi)