

## Huseyin Adanir

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### Academic Background:

- Philosophy of Doctorate (Ph. D.) in Materials Engineering, 2004  
New Mexico Institute of Mining and Technology/ Socorro, NM.
- Master of Science Degree in Materials Science, 1999  
Colorado School of Mines/ Golden, CO.
- Bachelor of Science Degree in Metallurgical Engineering, 1986  
Istanbul Technical University/ Istanbul, Turkey.

### Projects Completed:

- Mechanical Behaviour of Active Metal Addition Pb- Free Alloys (in progress) Metallurgical and Materials Engineering Department, Marmara University, Istanbul/Turkey.
- Developing of new Bi-Sn Alloy for Glass Sealing, Research Scientist (2012) Metallurgical and Materials Engineering Department, Marmara University, Istanbul/Turkey.
- Producing Flexible Nano-Materials, Research Scientist (2010) Mechanical Engineering Department of New Mexico Institute of Mining and Technology, Socorro/ NM, USA.
- High Temperature Application for Solid Oxide Fuel Cell (SOFC) Processing, Research Scientist (2008) Protonethic Fuel Cell, Coors-Tek Golden/ CO, USA.
- Fine Grain Tin Thin Film Coating, Post Doctorate Fellow (2006) Materials Engineering Department of New Mexico Institute of Mining and Technology, Socorro/ NM, USA.
- Developing of Solder/Braze Alloys for Ceramic-Metal Brazing, Research Assistant (2000) Materials Eng. Dept of New Mexico Institute of Mining and Technology, Socorro, NM, USA.
- Investigation of Crank Shaft Failure for Micro-Alloyed Steel, Research Engineer (1994) Steyr Tractor Company, Sakarya/Turkey.
- Developing of New Type of Multiaxial Horizontal Wind-Mill, Design Engineer, (1991) Tsukuba Agriculture Training Centre- Tsukuba University, Tsukuba, JAPAN.

### Academic and Industrial Experience:

- Marmara University, Istanbul, Turkey.  
Assist. Professor in Department of Metallurgical and Materials Engineering,
- Protonethic-Coors-Tech.Company, Golden, CO, USA.  
Engineer/ Scientist in R&D Division
- New Mexico Institute of Mining and Technology, Socorro, NM, USA.  
Post-Doctoral Fellow in Metallurgical and Materials Engineering Dept.
- Colorado School of Mines, Golden, CO, USA.  
Graduate Teaching Assistant in Metallurgical and Materials Engineering Department
- Tsukuba University/Tsukuba Agricultural Machinery Training Centre, Tsukuba Science City, Japan.  
Design Engineer,
- Steyr Tractor Company, Sakarya / Turkey.  
Materials Laboratory Control and Reliability Chief Engineer  
Heat Treatment Division Engineer

## Training Received/Workshops :

- Workshop on Selfhealing Materials, Aug. 25-26, 2016, NMT, Socorro, NM, USA.
- Unique Nano-Materials Conference and Workshop, Sept. 17-20, 2006 TMS, Pittsburgh PA, USA.
- 2005 Lead-Free Alloy Workshop”, Dec. 1, 2005, Indium Corporation & SMTA Rio Grande Valley Chapter, Albuquerque, NM, USA.
- International Brazing & Soldering Conference”, April 2-5, 2000, AWS and ASM, Abq. NM, USA.
- “Machine Design Course”, Feb. 11, Oct. 24, 1991, Tsukuba University and Tsukuba International Agricultural Training Centre, Tsukuba Science City, Japan.
- “Failure Analysis Workshop”, June 18-22, 1990. Metallurgical Engineering Dept., Istanbul Technical University, Istanbul, Turkey.
- ”Heat Treatment of Steel”, Nov. 26-30, 1989. Industrial Training Development Center, Izmir, Turkey.

## Teaching Courses:

- Introduction to Materials Science (MSE 2072)
- Physical Metallurgy (MSE3011)
- Metallography (MSE3013)
- Materials Selection and Design (MSE4003)
- Welding Metallurgy (MSE4031)
- Non-Destructive Testing (NDT) (MSE4018)
- Design of Experiment (IE 4055)

## Papers Published in Journals:

- **H. Adanir** “Inter-particle Force/Potential Measurement by Light Scattering” International Journal of Manufacturing, Science and Technology, 1, 41-46, 2007.
- **H. Adanir** “Inter-particle Force Measurement by Optical Trapping Technique” International Journal of Manufacturing, Science and Technology, 1, 19-23, 2007.
- **H. Adanir**, O.T. Inal and F.G. Yost, “Coated and Alloyed Effects of Ti, Zr and Hf on Reactive Wetting of  $Al_2O_3$ ”, International Journal of Manufacturing Science and Technology, August 2006.
- **H. Adanir**, E. R. Kutelia, O.O. Tsursumia, S.I. Bakhtiyarov, B.G. Eristavi “ Structure and Elemental Distribution in Beilby Layer on the Surface of Fe-Cr-Al-La Alloy” I-manager’s Journal on Engineering and Technology, Vol.1, No. 4, 61-71, 2006.
- **H. Adanir**, E. R. Kutelia, O. O. Tsursumia, S.I. Bakhtiyarov, B. Eristavi “Investigation of the Depth and the Character of Transformations During Mechanical Polishing of Ground Surface of Fe-Cr-Al-La Alloy”, Georgian Engineering News, 2, 44-54, 2006.
- **H. Adanir** and O.T.Inal “Chemical Potential Energies of Sn-Eutectic Formations versus to Sn-Intermetallic Formations”, Journal of Materials Science 39, 1449-1453, 2004.

## Papers Presented at International Conferences&Symposia

- **H. Adanir** and A. Saleeb “Comparison and Characterization of NiTi and NiTiCu Shape Memory Alloys” 6<sup>th</sup> IAASS Conference, 21-23, May, 2013, Montreal, Canada.
- **H. Adanir**, “Developing of Bi-Sn Eutectic Alloy with In Additions for Glass Sealing”, 5<sup>th</sup> International Brazing and Soldering Conference Proceeding, April 22-25, 2012 Las Vegas, NV, USA.
- O. Tsursumia, E. Kutelia, **H. Adanir**, S.I. Bakhtiyarov, B. Eristavi, “Structure and Elemental Distribution in Beilby Layer on the Surface of Fe-Cr-Al-La Alloy” Junior Euromat, 4-8 Sept., 2006, Lausanne, Switzerland.
- **H. Adanir**, O.T. Inal, “Sn-Bi Eutectic Alloying with Sn-Al Eutectic and SnBi Eutectic Alloying with Sn Coated Al Solder Alloys Effects on Soldering of Cu-Substrates”, 15<sup>th</sup> Rio Grande Advanced Materials Symposium, Oct.27, 2003, Albuquerque, NM.
- **H. Adanir**, O.T. Inal “Developing of Wetting Behavior of Sn-Based Ag-Cu Master Braze Alloy”, ASM 13<sup>th</sup> Advanced Materials Symposium, Oct.13-15, 2003, Pitt, PA.
- **H. Adanir**, “Trial Making of Horizontal Axis Multi-bladed Wind Mill and its Performance Test by Strain Gage”, International Farm Machinery Design Symposium Proceedings, Oct.16-17, 1991, Tsukuba, Japan, pp. 9-1, 9-16.