

# **Amir Abdollah-zadeh**

**Associate Professor of Metallurgy  
Dean of Engineering Faculty**

Tarbiat Modares University,  
Department of Materials Engineering,



## **PREVIOUS APPOINTMENTS**

Assistant Professor of Metallurgy (January 1997-April 2005) in the Department of Materials Engineering, Tarbiat Modares University, Tehran, Iran.

Head of Department of Materials Engineering (May 2004-Oct. 2005), Tarbiat Modares University, Tehran, Iran.

Head of Metallurgy Group (May 1998-July 2000) in the Department of Materials Engineering, Tarbiat Modares University, Tehran, Iran.

Head of Materials Engineering Department (March 1998-Feb. 2002) in the Iranian Research Organization for Science and Technology (IROST), Tehran, Iran.

## **FIELDS OF INTEREST**

Physical metallurgy, thermomechanical processing, friction stir welding, friction stir processing.

## **HIGHER EDUCATION**

**B.Sc.** in Materials Science and Engineering (1989),  
Sharif University of Technology, Tehran, Iran

**M.Sc.** in Materials Engineering (1992),  
University of Wollongong, Wollongong, Australia.

**Ph.D.** in Materials Engineering, (1996),  
University of Wollongong, Australia.

## **PROFESSIONAL SKILLS**

Transmission electron microscopy, scanning electron microscopy, electron back scattered diffraction, X-ray diffraction, thermomechanical testing of materials.

## TEACHING EXPERIENCE

Feb. 1998-Jan. 1999: Teaching metal forming to undergraduate students in Materials Science and Engineering, Amir Kabir University of Technology, Iran.

From Feb. 1997: Teaching graduate courses in advanced materials analysis methods, X-ray diffraction, phase transformation, high temperature alloys, strengthening mechanisms of materials and fatigue, Tarbiat Modares University, Iran.

## PROFESSIONAL ACTIVITIES

Head of the referee committee of Materials Science Group, IROST, for the international Kharazmi Festival, Iran (1998-2002).

Member of the referee committee of Materials Science Group, IROST, for the international Kharazmi Festival, Iran (2002-2005).

Member of the referee committee for the assessment of research proposals for 2/1000 Bureau, Ministry of industry, Iran (1997-2000).

Member of R&D steering committee, Sadid Pipe and Profile Co., Tehran, Iran (from 2002).

## SOCIETY MEMBERSHIPS

Iron and Steel Society, Iran.

Metallurgical Engineering Association, Iran.

Iron and Steel Society, USA.

## PUBLICATIONS

### *Journal Papers*

1. A. Abdollah-zadeh, N. Kaviani, S. M. Abbasi, The Effect of Thermomechanical Treatment on Morphology of Inclusions and Mechanical Properties of D6AV Steel, *Modares Technical & Eng. J. (in Persian)*, 2001, Vol. 5, pp. 33-38.
2. A. Abdollah-zadeh, D.P. Dunne; Effect of Nb on Recrystallization after Hot Deformation in Austenitic Fe-Ni-C, *ISIJ Int.*, 2003, Vol. 43, pp. 1219-1224.
3. A. Abdollah-zadeh, D.P. Dunne; Formation of Recrystallized grains in a Hot Deformed Austenitic Fe-Ni-C Alloy, *J. Mater. Sci. & Technol.*, 2004, Vol. 12, pp. 15-25.
4. A. Abdollah-zadeh, M.S. Jamshidi, S.M.M. Hadavi; Thermal Fatigue Behavior of a Chromium Electroplated 32 NiCrMo145 Steel, *J. Mater. Sci. & Technol.*, 2004, Vol. 20, pp. 269-273.
5. S.M.M. Hadavi, A. Abdollah-zadeh, M.S. Jamshidi; The Effect of Thermal Fatigue on the Hardness of Hard Chromium Electroplating, *J. Mater. Process. Technol.*, 2004, Vol. 147, pp. 385-388.
6. B. Eghbali, A. Abdollah-zadeh; The Influence of Thermomechanical Parameters in Ferrite Grain Refinement in a Low Carbon Nb-Microalloyed Steel, *Scripta Materialia*, 2005, Vol. 53, pp. 41-45.

7. A. Abdollah-zadeh, H. Hemati-Novin, G. Liaghat; The Influence of Metallurgical Parameters on Explosive Welding of Cu-Al 6061 Plates, *Amirkabir J. Sci. & Technol. (in Persian)*, 2005, Vol. 15, pp. 9-15.
8. A. Abdollah-zadeh, M. Belbasy; The Effects of Manganese and Copper on the Mechanical Properties of a High Strength Low Alloy NiCrMoV Steel, *J. Mater. Sci. & Technol.*, 2005, Vol. 21, 470-474.
9. A. Abdollah-zadeh, A. Jafari-Pirlari, M. Barzegari; On the Tempered Martensite Embrittlement in a 32NiCrMoV125 Steel, *J. Mater. Eng. & Performance*", 2005, Vol. 14, pp. 569-573.
10. B. Eghbali, A. Abdollah-zadeh; Effect of Strain Rate on the Ferrite Grain Refinement in a Low Carbon Nb–Ti Microalloyed Steel During Low Temperature Deformation, *J. Mater. Sci. & Technol.*, 2005, Vol. 21, pp. 851-855.
11. A. Salemi, A. Abdollah-zadeh, A Review on Development and Fabrication of All-Steel CNG Cylinders, *Metallurgical Eng. J. (in Persian)*, 2005, Vol. 8, pp. 32-39.
12. B. Eghbali, A. Abdollah-zadeh; Strain-Induced Transformation in a Low Carbon Microalloyed Steel During Hot Compression Testing, *Scripta Materialia*, 2006, Vol. 54, pp. 1205-1209.
13. B. Eghbali, A. Abdollah-zadeh; Deformation-Induced Ferrite Transformation in a Low Carbon Nb–Ti Microalloyed Steel, *Materials & Design*, 2007, Vol. 28, pp. 1021-1026..
14. A. K. Kamrani, A. Abdollah-zadeh; Effect of Thermomechanical Parameters on the Workability of 2024 Al Alloy, *Iranian Int. J. Eng. Sci. (in Persian)*, 2005, Vol. 16, pp. 103-110.
15. H. Arabi, A. Abdollah-zadeh, S.M. Abbasi; The Effect of Interpass Annealing Time on the Mechanical Properties of 18Ni-Co-Mo Steel, *Modares Technical & Eng. J. (in Persian)*, 2006, Vol 26, pp. 53-60.
16. B. Eghbali, A. Abdollah-zadeh; Influence of Deformation Temperature on the Ferrite Grain Refinement in a Low Carbon Nb–Ti Microalloyed Steel, *J. Mater. Process. Technol.*, 2006, Vol. 180, pp. 44-48.
17. B. Eghbali, A. Abdollah-zadeh, H. Beladi and P.D. Hodgson; Characterization on Ferrite Microstructure Evolution During Large Strain Warm Torsion Testing of Plain Low Carbon Steel, *Materials Science & Engineering: A*, 2006, Vol. 435-436, pp. 499-503.
18. A. Abdollah-zadeh, B. Eghbali; Mechanism of ferrite grain refinement during warm deformation of a low carbon Nb-microalloyed steel, *Materials Science and Engineering: A*, 2007, Vol. 457, pp. 219-225.
19. B. Eghbali, A. Abdollah-zadeh, P.D. Hodgson; Dynamic softening of ferrite during large strain warm deformation of a plain-carbon steel, *Materials Science & Engineering: A*, 2007, Vol. 462, pp. 259-263.
20. A. Salemi, A. Abdollah-zadeh; The effect of tempering temperature on the mechanical properties and fracture morphology of a NiCrMoV steel, *Materials Characterization*, 2007, Vol. 59, pp. 484-487.

21. A. Abdollah-zadeh, A. Salemi, H. Assadi; Mechanical behavior of CrMo steel with tempered martensite and ferrite–bainite–martensite microstructures, *Materials Science and Engineering: A*, 2008, Vol. 483-484, pp.325-328.
22. A. Abdollah-zadeh, T. Saeid, B. Sazgari; Microstructural and mechanical properties of friction stir welded aluminum/copper lap joints. *J. Alloys and Compounds*, 2007, Vol. 460, pp. 535-538.
23. M. Nouri, A. Abdollah-zadeh, F. Malek, Effect of welding parameters on dilution and weld bead geometry in cladding, *J. Mater. Sci. & Technol.*, 2007, Vol. 23, pp. 817-822.
24. A. Salemi, A. Abdollah-zadeh, M. Mirzaei, H. Assadi, A study on fracture properties of multiphase microstructures of a CrMo steel, *Materials Science and Engineering: A*, 2008, Vol. 492, pp.45-48.
25. T. Saeid, A. Abdollah-zadeh, H. Assadi, F. Malek Ghaini, Effect of friction stir welding speed on the microstructure and mechanical properties of a duplex stainless steel, *Materials Science and Engineering: A*, 2008, Vol. 496, pp.262-268.
26. A. Samadi, A. Abdollah-zadeh, H. Assadi, The effect of composition on the precipitation of  $\text{g}\phi$  in rapidly quenched Ni-Al binary alloys, *Modares Technical & Eng. J.*, 2009, In Press.
27. P. Rahnema, A. Abdollah-zadeh, M.A. Mofid, The Influence of heat treatment Parameters on mechanical properties of D6AC Steel, *Modares Technical & Eng. J. (in Persian)*, 2008, in press.
28. S.M. Mousavizade, F. M. Ghaini, M.J. Torkamany, J. Sabbaghzadeh, A. Abdollah-zadeh, Effect of severe plastic deformation on grain boundary liquation of a nickel-base superalloy, *Scripta Materialia*, 2008, Vol. 60, pp. 244-247.
29. A. Salemi, A. Abdollah-zadeh, M. Mirzaei, Mechanical Properties of 42CrMo4 Steel with Tempered Martensite and Ferrite-Bainite-Martensite, Microstructure, *Modares Technical & Eng. J. (in Persian)*, 2008, in press.
30. A. Samadi, A. Abdollah-zadeh, S. Behrouzghaemi, S.H. Razavi, The Effect of Solid Solution Supersaturation on Precipitation of  $\gamma'$  in Rapidly Quenched Ni-Al Binary Alloys, *J. Mater. Sci. & Technol.*, 2009, in press.