



Full Member of IIW (*International Institute of Welding*),
Educational Institution Member of AWS (*American Welding Society*),
Corporate Partner of ASNT (*American Society for NDT*).

Welding Technology & Nondestructive Testing Research/Application Center (WTNDT) takes its legal entity from the Middle East Technical University (**METU**), and is directly administered by to the Office of the President. WTNDT was officially **founded in 1991** within the frame of a **bilateral project** between **Turkey** and **German governments** (1988-1996). BAM-Berlin, DGZfP, and SLV-München have actively contributed to the establishment of the Centre (*providing training, and sending short- and long-term experts*).

Main sections: 1) Welding Technology Section 2) Nondestructive Testing Section

Groups: a) Research & Development b) Industrial Tests*

* *Mechanical tests lab. has been working under accreditation according to EN ISO/IEC 17025.*

Activities:

- Training: International Welding Engineer/Technologist/Specialist/Practitioner;
- Training and certification of the welders and welding operators;
- NDT training and certification (EN ISO 9712, ASNT SNT-TC-1A);
- Mechanical tests and Non-Destructive tests for industry;
- Failure analysis; Research studies; Industrial projects;
- Finite Element Simulation by SYSWELD software (distortion, residual stress)

Training & Certification in Numbers:

- **More than 1,400 international welding engineers and 4,800 welders** have been trained and certified. WTNDT acted as the recognized ATB and examination center of GSI-SLV Munich. After recognition of Turkish ANB (ANB-TR) by IIW, WTNDT started to give IWE diploma through ANB-TR since April 2011.
- **More than 230 NDT courses** (5 methods, 2 levels) have been organized where **more than 2,600 participants** have attended these courses.

METU Welding and NDT Personnel Certification Center (METU-PCC) acts as an **accredited certification body** (*accredited by Turkish Accreditation Council*) according to **EN ISO 17024**, EN ISO 9712 (NDT), EN ISO 9606-1 (*steel welder*), and EN ISO 9606-2 (*aluminum welder*).

WTNDT leaded the establishment of the Turkish Section of the American Society for NDT which was approved by ASNT in November 2008.

WTNDT gives laboratory **support for** the welding and NDT **undergraduate and graduate courses** in the departments of Metallurgical-Materials Eng. and Mechanical Eng. of METU.

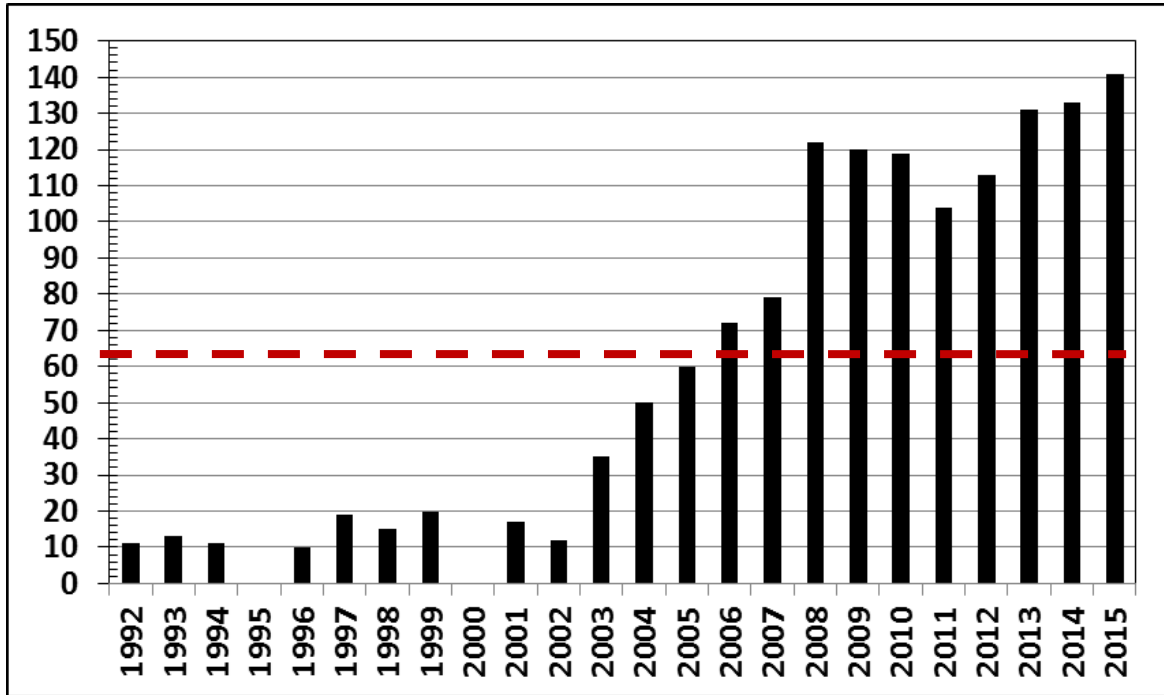
MSc and PhD theses (>40) on welding and NDT have been finished; the total number of **publications in journals and congresses** is about 75.

Research topics: Hybrid plasma arc welding; Friction-Stir Welding/Processing, Finite element simulation of welding; Materials characterization and residual stress measurement by ND techniques; Phased array applications.

Important Notes:

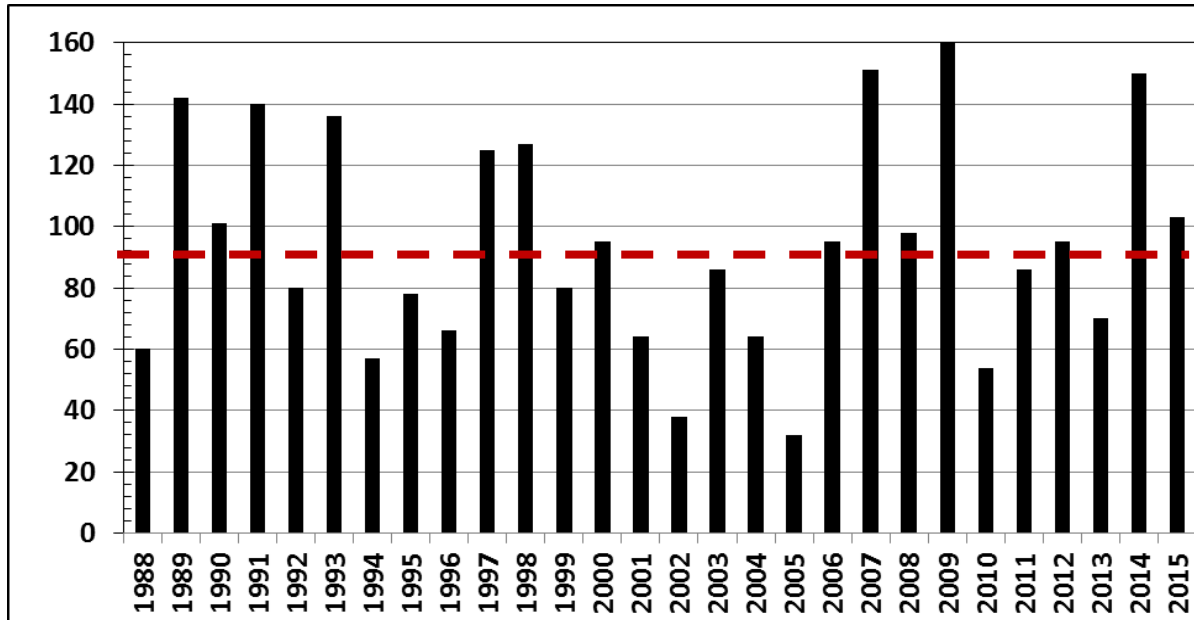
1) METU had ranked in the "World Top 100 Universities" list in the "World Reputation Rankings", released by the *Times Higher Education* in 2012, 2013, and 2014, and also had ranked in the "World University Rankings 2014-2015", released in October 2014, in the 85th, among the world's best 400 universities. In the BRICS & Emerging Economies Rankings 2015, which recognizes institutions in 18 "emerging economies", METU is ranked 3rd, whereas China takes 1st and 2nd places. <http://www.metu.edu.tr>

2) The WTNDT has close collaboration with Metallurgical and Materials Engineering Department of METU. <http://www.mete.metu.edu.tr>



Analysis of International Welding Engineer Courses (1992-2015)

Total = 1407, General ave. = 64 participant/year, Last 5 years ave. = 124 participant/year



Analysis of NDT Courses (1988-2015)

Total = 2633, General ave.= 94 participant/year, Last 5 years ave. = 101 participant/year



Finished MSc. and PhD. Theses

2015	Investigating the Reliability of Ultrasound Phased Array Method for Detection of Defects in Austenitic Stainless Steels and Evaluation of Probability of Detection	B. Akgün
	Effect of Friction Stir Processing on Fracture Toughness and Crack Growth Behaviour of Fusion Welded 5083 Grade Aluminum Plates	G. Akçay
2014	Effects of Friction Stir Processing on Microstructure and Fatigue Crack Growth Behaviour of Gas Metal Arc Welded Al-Alloy	C. Yazganarıkın
	Comparison of the Flaw Detection Abilities of Phased-Array and Conventional Ultrasonic Testing Methods in Various Steels	M. Yalçın
2013	Kinetics & Microstructural Analysis of Fatigue Fracture Progress in Weld Joints of DSS Grade 2205	K.Yurtışık (PhD)
	Investigating the Effect of Deformation and Annealing Texture on Magnetic Anisotropy in Low-C Steel Sheets by Magnetic Barkhausen Noise	F.Ü. Akçaoğlu
2012	Microstructural & Mechanical Characterization of Duplex Stainless Steel Grade 2205 Joined by Hybrid Plasma & Gas Metal Arc Welding	B. Tolungüç
	Non-Destructive Evaluation of Residual Stresses in the Multi-Pass Steel Weldments	G. Erian
2011	Effect of welding parameters on the hot cracking behavior of 7039 aluminum - zinc alloy	M. Akkus
	Microstructural / mechanical characterization of MAG welded joint between cast iron & low-C steel	M.T. Ertürk
2010	Monitoring Variation of Surface Residual Stresses in the Shot-Peened Steel Components by Magnetic Barkhausen Noise Method	S. Savaş
2009	Determination of Residual Stress State in Steel Weldments	H. I. Yelbay
	Characterization of Ultra-Fine Grained Steel Samples Produced by High Pressure Torsion via Magnetic Barkhausen Noise Analysis	S. Bayramoğlu
	Effect of filler material on hot cracking susceptibility of 5XXX series Al-Mg alloys (PhD)	S. Tirkeş
2006	Effect of Welding Parameters on the Susceptibility to Hydrogen Cracking in Line Pipe Steels in Sour Environment	Ö.Yavaş
	Estimation of Heights of Surface Breaking Cracks Using Ultrasonic Timing Methods	E. Öztürk
	Characterization of Steel Microstructures by Magnetic Barkhausen Noise Analysis	K.Davut
	Characterization of Dual Phase Steels by Using Magnetic Barkhausen Noise Analysis	M.Kaplan
	Microstructural Characterization of Hypoeutectoid Steels Quenched from Ae1-Ae3 Intercritical Temperature Range by Magnetic Barkhausen Noise Technique	B.Boyacıoğlu
2005	Effect of Surface Roughness on Ultrasonic Testing	U.İşleyici
	Determination of Welding Parameter dependent Hot Cracking Susceptibility of 5086-H32 Aluminum Alloy with the Use of MVT Method (PhD)	C.Batigün
2004	Computerized Test Procedure for Industrial Radiographic Examination of Metallic Welded Joints	E.E.Güneş
	Effect of Spheroidizing on Machinability Characteristics and Microstructure of Medium-C Steels	E.Yanardağ
	Determination of Relationship between Weld Quality and Mechanical Strength in Different Steels	O.A. Soyulu
2003	Effect of Gap Distance on the Mechanical Properties and Cross-Sectional Characteristics of the MIG-MAG Butt Welds	İ.Kaşıkcı
	Detection and Monitoring of Surface-Breaking Fatigue Cracks in Al 2024-T3 by Ultrasonic Methods	F. Sonat
	Effect of Solid Couplants Made of Hydrophilic Polymers in Ultrasonic Testing	M.İ.Çetin
2002	Defect Assessment of Spot Welds by NDI	O.O.Koçak
	Correlation between Ultrasonic Properties and Heat Treatment Conditions for Some Steels	C.V.Bozay
	Investigation of Effect of Titania Additions on the Strength and Elastic Modulus of a Mica Glass Ceramic by Bending Test & Ultrasonic Velocity Measurements	A.Dereli
	Computer Modelling for Propagation of Ultrasonic Waves in Solid Polycrystalline Structures	O.Kolankaya
	ND Investigation of Age Hardening of Al-alloys by Sound Velocity and Conductivity Measurements	İ.Yıldız
	Microstructural Characterization of Isothermally Heat Treated Steels by Ultrasonics	B.O.Tuncer
2000	Effect of Microstructure and Hardness on Acoustic Properties of Hypoeutectoid Plain-C Steels	Y.Keleş
	Determination of Graphite Morphology, Nodularity & Matrix in Nodular Cast Irons by Ultrasonic Techniques	B.Aydınmakina
1999	Determination of Microstructural Properties of PM Al-SiC Composites by Ultrasonic Techniques	E.Ataş
	Determination of Hot Cracking Susceptibilities of As-Kaynak Welding Consumables for Austenitic Stainless Steels with MVT Test	H.Enginar
1998	Determination of Spot Welding Parameters of Thick, Heat-Treated SAE 4140 Parts	A.B.Tandoğan
	Determination of the H-content in the Weld Metal after Welding with a Basic Electrode	A.Kırbaş
1997	Real-Time Observation of Gas Metal Arc Welding Arc by Means of an Optical System	O.Öztürk
	Hot Cracking in Welding of Aluminum and Some of its Alloys	F.Caymaz
1994	Optimization of Laser Beam Welding of Un- and High-Alloyed Steel Sheets	C.Batigün
	Parameter Optimization in MIG/MAG Welding Processes	F.Raoufi
1993	Determination of Hot Crack Susceptibility of Welding Fillers with Longitudinal Bending Test	K.Geniş



A. Selected Papers Published in International Journals

1. Gür CH, Erian G, Batıgün C, Çam İ, Investigating the Effects of Subsequent Weld Passes on Surface Residual Stresses in Steel Weldments by Magnetic Barkhausen Noise Method, **Materials Evaluation**, 74 (2016) 418-423
2. Garipova N, Batıgün C, Gür CH, Numerical and Experimental Determination of the Residual Stress State in Multi-pass Welded API 5LX70 Plates, **Materials Testing**, 56 (2014) 831-836
3. Mofid MA, Abdollah-zadeh A, Gür CH, Investigating the Formation of Intermetallic Compounds during Friction Stir Welding of Magnesium Alloy to Aluminum Alloy in Air and under Liquid Nitrogen, **Int J Advanced Manufacturing Technology**, 71 (2014) 1493-1499
4. Yurtisik K, Tirkes S, Dykhno I, Gür CH, Gurbuz R, Characterization of Duplex Stainless Steel Weld Metals Obtained by Hybrid Plasma-Gas Metal Arc Welding, **Soldag. Insp.**, 18 (2013) 207-216
5. Mofid M.A, Abdollah-zadeh A, Malek Ghaini F, Gür CH, Submerged Friction Stir Welding (SFSW) under Water and under Liquid Nitrogen: An improved method to join Al alloys to Mg alloys, **Metallurgical & Materials Trans. A**, 43A (2012) 5106-5114
6. Oral I, Guzel H, Ahmetli G, Gür CH, Determining the Elastic Properties of Modified Polystyrenes by Sound Velocity Measurements, **Journal of Applied Polymer Science** 121 (2011) 3425–3432
7. Yelbay I, Gür CH, Non Destructive Determination of Residual stress State in Steel Weldments by Magnetic Barkhausen Noise Technique, **NDT&E International** 43 (2010) 29-33
8. Bayramoglu S, Gür CH, Alexandrov I, Abramova MM, Characterization of ultra-fine grained steel samples produced by high pressure torsion via magnetic Barkhausen noise analysis, **Mater Sci Eng A** 527 (2010) 927–933
9. Tirkeş S., Batıgün C., Ankara A., Hot Cracking Susceptibility of Twin Roll Cast Al-Mg Alloy Welds, **Canadian Metallurgical Quarterly**, Vol. 49, Issue 1, pp. 73-80
10. Gür CH, Yıldız, I, Utilization of Non-destructive Methods for Determining the Effect of Age-Hardening on Impact Toughness of 2024 Al-Cu-Mg Alloy, **J Nondestructive Eval**, 27 (2008) 99-104
11. Gür CH, Özer M, Erdogan M, Investigation of the variations in microstructure and mechanical properties of dual matrix ductile iron by magnetic Barkhausen noise analysis, **Research in ND Eval**, 19 (2008) 44-60
12. Davut K, Gür CH, Monitoring the microstructural changes during tempering of quenched SAE 5140 steel by magnetic Barkhausen noise, **J Nondestructive Eval**, 26 (2007) 107-113
13. Kaplan M, Gür CH, Erdogan M, Characterization of dual-phase steels using magnetic Barkhausen noise technique, **J Nondestructive Eval**, 26 (2007) 79-87
14. Gür CH, Çam İ, Comparison of magnetic Barkhausen noise and ultrasonic velocity measurements for microstructure evaluation of SAE 1040 and SAE 4140 steels. **Mater Charac** 58 (2007) 447-454
15. Gür CH, Çam İ, Investigation of as-quenched and tempered commercial steels by Magnetic Barkhausen Noise method, **Int J Microstructure and Materials Properties** 1 (2006) 208-218
16. Öztürk A, Gür CH, Determination of influence of TiO₂ on the elastic properties of a mica based glass ceramic by ultrasonic velocity measurements, **J of Non-Crystalline Solids** 351 (2005) 3655-3662
17. Gür CH, Tuncer BO, Characterization of microstructural phases of steels by sound velocity measurement, **Mater Charac** 55 (2005) 160-166
18. Gür CH, Tuncer BO, Microstructural investigation of SAE 1040 steel specimens by ultrasonic measurements, **INSIGHT – J British Inst of NDT** 47 (2005) 421-424
19. Gür CH, Yıldız, I, Non-destructive investigation on the effect of precipitation hardening on impact toughness of 7020 Al-Zn-Mg alloy, **Mat Sci Eng A** 382/1-2 (2004) 395-400
20. Gür CH, Investigation of microstructure-sound velocity relationship in SiCp reinforced aluminium metal matrix composites, **Mat Sci Eng A** 361/1-2 (2003) 29-35
21. Gür CH, Keles Y, Ultrasonic characterisation of hot-rolled and heat-treated plain carbon steels, **INSIGHT – J British Inst of NDT** 45 (2003) 615-620
22. Gür CH, Investigation of the influence of specimen geometry on quench behaviour of steels by X-ray determination of surface residual stresses, **Int J Mech Sci** 44/7 (2002) 1335-1347
23. Gür CH, Aydınmakina B, Microstructural characterisation of ductile irons by measuring velocity and apparent attenuation of ultrasonic waves, **INSIGHT – J British Inst NDT** 43 (2001) 731-734
24. Gür CH, Quality management system in NDT laboratories: Accreditation as a testing laboratory, **INSIGHT-J British Inst NDT** 40 (1998) 621-623
25. Tekin B, Gür CH, Ankara OA, Investigation of fatigue and creep damage in steam boiler pipes by ultrasonic testing, **INSIGHT- J British Inst NDT** 39 (1997) 626-629
26. Batıgün C, Akçam Ö. Heat treatment of welded joints. **Metalurji**. 1995. 27-30.



B. Selected Congress Papers

1. Kaleli T, Gür CH, Non-Destructive Determination of Residual Stresses in the Spiral Submerged Arc Welded Steel Pipes, **19th World Cong. for NDT** 13-17 June 2016 Munich, CD Proc. Tu.1.C.3
2. Yalçın M, Yelbay Hİ, Gür CH, PoD Analysis of Phased Array and Conventional Ultrasonic Techniques, **19th World Cong. for NDT** 13-17 June 2016 Munich, CD Proc. P150.
3. Hızlı H, Davut K, Şimşir C, Gür CH, Non-destructive Monitoring of Variations in Microstructure and Residual Stress in the Carburized Steel, **19th World Cong. for NDT** 13-17 June 2016 Munich, CD Proc. Tu.2.C.1
4. Gür CH, Applicability of Micromagnetic and Ultrasonic Methods for Non-Destructive Monitoring of Microstructure Variations in Steels Induced by Heat Treatment, **5th Int. Conf. on Distortion Eng.** 23-25 Sept. 2015 Bremen, Proceedings pp. 329-334
5. Hızlı H, Gür CH, Nondestructive Monitoring of the Effects of Carburizing on 19CrNi5H Steel by Magnetic Barkhausen Noise Method, **11th Int Conf on Barkhausen Noise & Micromagnetic Testing**, 18-20 June 2015 Kuşadası, CD Proceedings, No. 19
6. Akcaoglu FU, Gür CH, Monitoring Magnetic Anisotropy Variations in Cold-Rolled Steel Sheets by Magnetic Barkhausen Noise Method, **11th European Conference on NDT 06-10 Oct 2014Prag-Czech Rep.**, CD Proc. Paper No: 458
7. Gür CH, Estimation of Residual Stresses in Steel Components by Magnetic Barkhausen Noise Technique: Welding and Shot-Peening, **17th Int. Metallurgical & Materials Cong.** 11-13 Sept 2014-Istanbul, CD-Proc., 354-360
8. Garipova N, Batıgün C, Gür CH, Determination of Residual Stress Field on a Multi-Pass Welded Butt-Joint by Finite Element Modeling, **17th Int. Metallurgical & Materials Cong.** 11-13 Sept 2014-Istanbul, CD-Proc., 380-388
9. Gür CH, Nondestructive Determination of the Influence of Tempering Temperature on the Microstructure and Hardness of the Quenched AISI 4140 Steel by Measuring Magnetic Properties, **14th Asia Pacific Conf on NDT** 18-22 Nov 2013-Mumbai, CP30.
10. Gür CH, Çam İ, Erian G, Batıgün C, Non-Destructive Monitoring of Variations of Residual Stresses in Steel Weldment by Magnetic Barkhausen Noise, **ASME Pressure Vessels & Piping Conf.** 14-18 July 2013 Paris, PVP2013-97495.
11. Gür CH, Çam İ, Investigating the Effects of Quenching and Tempering on Steel Microstructures by Magnetic Barkhausen Noise Method, **6th Int Quenching and Control of Distortion Conf.- ASM**, 9-12 Sept 2012 Chicago-USA, 258-265
12. Gür CH, Savaş S, Measuring the Surface Residual Stresses in Shot-Peened Steel Components by Magnetic Barkhausen Noise Method, **18th World Congress for NDT**, Durban-S.Africa, Paper no: 478
13. Erian G, Batıgün C, Çam İ, Gür CH, Investigating the Effect of Number of Weld Passes on the Residual Stress State of Steel Plates by Micro-Magnetic Method, **16th Int Metallurgical & Materials Congress, Sept 2012-Istanbul**, 903-911.
14. Akçaoğlu FÜ, Gür CH, Prediction of Texture Formation in Cold Rolled Steels by Magnetic Barkhausen Noise Method, **16th Int Metallurgical & Materials Congress, Sept 2012-Istanbul**, 1179-1185.
15. Mofid MA, Abdollah-zadeh A, Ertürk MT, Gür CH, Submerged Friction Stir Welding of Al- and Mg-alloys: A New Method to Minimize Formation of Intermetallics, **2nd Int Welding Tech Conf** - May 2012 Ankara, 184-189
16. Gür CH, Nondestructive Monitoring of Surface Residual Stresses in Steels by Magnetic Barkhausen Noise Technique: Welded Plates and Shot-peened Components, **3rd Int. Conf. On Distortion Eng.**, 14-16 Sept 2011, Bremen, 361-368
17. Tan E, Gür CH, Simon A, Gacsi Z, Investigating the Microstructure of Hot-Pressed SiC Reinforced AlCu and AlSi Alloy Composites by Ultrasonic Technique, **6th Int. Powder Metallurgy Cong**, 5-7 Oct 2011, Ankara
18. Yelbay İ., Cam İ., Gür H. Prediction of Surface Residual Stresses in Butt-Welded Steel Plates by Magnetic Barkhausen Noise Analysis, **10th European Conf. on NDT**, 6-11 June 2010, Moscow-Russia, Paper No: 1.01.03
19. Kara Z, Çam İ, Gür CH, Abramova M, Alexandrov İ, Characterization of Equal Channel Angular Pressed AISI 1020 Steels by Magnetic Barkhausen Noise Analysis, **15th Int Metallurgy & Materials Cong**, 11-13 Nov 2010, Istanbul, 551-560
20. Batıgün, C., Garipova, N. Demircan, M., Gür, C.H.. Effect of Weld Repair on Microstructure and Mechanical Properties of API 5L X65 Steel (Bildiri). **63rd Annual Assembly & Int. Conf. of IIW**. 11-17 July 2010, İstanbul.



Welding Technology & Nondestructive Testing Research/Application Center

21. Davut K, Gür CH, Monitoring the Microstructural Evolution in Spheroidised Steel by Magnetic Barkhausen Noise Measurement, **7th Int Conf on Barkhausen Noise & Micromagnetic Testing**, July 15-16 2009, Aachen, 143-150
22. Batıgün C, Yurtışık K, Gürbüz R, Effect of varying laser welding parameters on microstructural characteristics of SAE 409 ferritic stainless steel joints, **IIW Int. Congress**, 14-16 Oct 2009, Stará Lesná, High Tatras, Slovakia
23. Gür CH, Davut K, Non-destructive Characterization of Pearlite Spheroidization by Magnetic Barkhausen Noise Method, **17th World Conf NDT**, 25-28 Oct 2008, Shanghai
24. Gür CH, Özer M, Erdoğan M, The Evaluation of Structure-Property Relationships in the Dual Matrix Ductile Iron by Magnetic Barkhausen Noise Analysis, **17th World Conf NDT**, 25-28 Oct 2008, Shanghai
25. Gür CH, Kılıçlı V, Erdoğan M, Investigating the Austempering Parameters of Ductile Iron by Magnetic Barkhausen Noise Technique, **17th World Conf NDT**, 25-28 Oct 2008, Shanghai
26. Bayramoğlu S, Savaş S, Yelbay İ, Gür CH, Non-destructive Evaluation of Railroad Rails, **CD Proc. 2. Int Railway Symposium** 15-17 Oct 2008 Istanbul, 951-960
27. Ertürk MT, Tirkeş S, Batıgün C. Determination of the hot cracking tendency of 7000 series aluminum alloys during welding using the circular patch test. **14. Int Metallurgy & Materials Cong.** 16–18 Oct 2008 Istanbul.
28. Akkuş M, Tirkeş S, Batıgün C. Effects of welding on the mechanical properties of Al-Zn-Mg alloys, **14th Int Metallurgy & Materials Cong.** 16–18 Oct 2008 Istanbul.
29. Batıgün C, Tirkeş S, Yurtışık K. Microstructural characterization of HAZ in the 2507 super duplex stainless steel welds, **14th Int Metallurgy & Materials Cong.** 16–18 Oct 2008 Istanbul.
30. Batıgün, C., Tirkeş, S. Effect of line energy on the weld geometry and Mg content of the weld metal in MIG welding of Al-Mg alloys. **Welding Technology VI. National Congress.** 9-10 Nov 2007 Ankara.
31. Tirkeş, S., Sakınmaz, S., Batıgün, C. Determination of the hot cracking tendency of Al-Mg alloys using TIG spot welding test. (Proc. conf.). **Welding Technology VI. National Congress.** 9-10 Nov 2007 Ankara.
32. Batıgün, C., Filiz, Z. Tansal, M., Gür, C.H. Training and certification of the welding personnel in the frame of international regulations. (Proc. conf.). **Welding Technology VI. National Congress.** 9-10 Nov 2007 Ankara.
33. Kaplan M, Gür CH, Erdogan M, Characterisation of Dual Phase Steels by Magnetic Barkhausen Noise Method, **6th Int Conf on Barkhausen Noise and Micromagnetic Testing**, 9-10 July 2007 Valenciennes, 77-84
34. Davut K, Gür CH, Investigating the Efficiency of Magnetic Barkhausen Noise Method for Determining Average Grain Size of Steels, **6th Int Conf Barkhausen Noise and Micromagnetic Testing**, 9-10 July 2007 Valenciennes, 113-122
35. Davut K, Bayramoglu S, Gürer G, Gür CH, Non-destructive Characterization of Spheroidised AISI 1060 Steel by Magnetic Barkhausen Noise Measurements, **6th Int Conf on Barkhausen Noise and Micromagnetic Testing**, 9-10 July 2007 Valenciennes, 123-129
36. C.H.Gür, I.Çam, Comparison of Magnetic Barkhausen Noise and Sound Velocity Measurements for Characterisation of Steel Microstructures, **9th ECNDT**, 25-29 Sept 2006 Berlin, Mo.2.2.4
37. Davut, C.H.Gür, X.Kleber, Characterisation of Quenched and Tempered Steels by Magnetic Barkhausen Noise Method, **9th ECNDT**, 25-29 Sept 2006 Berlin, P108.
38. Gür CH, Çam İ, Non-destructive characterisation of quenched/tempered AISI/SAE 1040 steel by magnetic Barkhausen noise and sound velocity measurements, **5th Int Conf on Barkhausen Noise and Micromagnetic Testing**, 2-3 June 2005 Petten, 29-36
39. Gür CH, Tuncer BO, Determination of the effect of quenching and tempering on AISI/SAE 5140 steel by sound velocity measurements, **1st Jordanian Int Conf of Mater Sci and Eng**, 3-5 May 2005 Al-Salt, 230-235
40. Gür CH, Tuncer BO, Investigating the Microstructure-Ultrasonic Property Relationships in Steels, **16th World Conf on NDT**, Paper No. TS2.6.2, 30 Aug.-03 Sept. 2004 Montreal
41. Gür CH, Yıldız İ, Determining the Impact Toughness of Age-Hardened 2024 Al-Alloy by Nondestructive Measurements, **16th World Conf on NDT**, Paper No. TS4.13.4, 30 Aug.-03 Sept. 2004 Montreal
42. Gür CH, Prediction of Reinforcement State and Mechanical Properties of SiC Particle Reinforced Al-Matrix Composites by Transverse & Longitudinal Waves, **8th European Conf. on NDT**, 17-21 June 2002, Barcelona
- Gür CH, Ultrasonic investigation of SiC-particle reinforced aluminium matrix composites, **DGZfP-Annual Congress**, 05-07 May 2002 Weimar.
43. Gür CH, Aydınmakina B, Ultrasonic Investigation of Graphite Nodularity in Ductile Cast Irons, **DGZfP Annual Congress**, 21-23 May 2001 Berlin.
44. Gür CH, Ataş E, Determination of the Properties of SiC Reinforced Al Metal-Matrix Composites by Ultrasonic Techniques, **15th World Conf. on NDT**, 15-21 Oct. 2000 Roma.
45. Gür CH, Aydınmakina B, Non-destructive Characterisation of Nodular Cast Irons by Ultrasonic Method, **15th World Conf on NDT**, 15-21 Oct. 2000 Roma.