

## C. Hakan GÜR

Birth date / place	1965 Zonguldak
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### Current position (Full Professor in Middle East Technical University)

- **Chair**, Department of Metallurgical & Materials Engineering (May 2012 - ...)
- **Director**, Welding Technology & Non-Destructive Testing Research/Application Center (Feb.2007 - ...)

### EDUCATION, DEGREE

June 1986	Metallurgical Engineer (BSc. Eng.), METU Metallurgical Eng. Dept., Ankara 3,57 / 4,00 High Honour (award: first in ranking of the MetE'86 graduates)
Feb 1989	MSc. Eng., METU Metallurgical Eng. Dept., Ankara, Degree: High Honour
Aug 1995	Ph.D., METU Metallurgical Eng. Dept., Ankara

### AWARD

**2010 Fellowship Award by Int. Federation of Heat Treatment and Surface Engineering (IFHTSE), UK**

### ACADEMICAL TITLES

02.2008	Prof.Dr. (METU - Metallurgical and Materials Engineering Dept.)
09.02- 02.08	Assoc.Prof.Dr. (METU - Metallurgical and Materials Engineering Dept.)
09.97- 09.02	Assist. Prof. Dr. (METU - Metallurgical and Materials Engineering Dept.)
1996 - 1997	Research Associate (METU - Metallurgical and Materials Engineering Dept.)
1988 - 1995	Research Assist. (METU - Metallurgical Engineering Dept.) Metallography Lab. (1 year), Mechanical Testing Lab. (2 years), X-Ray Diffraction Lab. (3 years)

**Editor of Handbook of Thermal Process Modeling of Steels**, 2009 CRC-Press, ISBN 978-0-8493-5019-1

**Chapter in a Book:** Quenching Theory & Technology: Chp. 17 Simulation of Quenching by Caner Şimşir & C. Hakan Gür, 2010 CRC Press, Eds: B.Liscic, H.M.Tensi, L.C.F.Canale, G.E.Totten, ISBN 978-0-8493-9279-5

### PROJECTS / TECHNICAL-SCIENTIFIC VISITS

07.2015-07.2018	TUBİTAK 214M603: Magnetic Barkhausen Noise Emission Measurements for Evaluation of Steel Properties (Univ. of Ljubljana, Faculty of Mech. Eng., Slovenia)
11.2012-05.2014	TUBİTAK 112M238: Improvement of Fracture Toughness and Crack Propagation Behaviour of Arc-Welded 5083 Al-Alloy by Friction Stir Processing
2011- 2012	TUBİTAK 111M388: Weldability of 9Cr-1Mo High-Temp. Steel by Hybrid Plasma Arc Welding; Comparison of Mechanical Behaviour of HPA Welded Samples with those Joined by Conventional Arc Welding
2010-2011	Plasma Arc Welding of Duplex Stainless Steels (BAP-08-11-2010-R-004)
2007 - 2009	TUBİTAK 106M328: Investigating the Microstructures of Ceramic Particle Reinforced Al-Matrix Composites (Faculty of Materials Science and Engineering, Univ. of Miskolc, Hungary)
2006 - 2008	TUBİTAK 105M174: Production of 6XXX Series Al Alloys by Severe Plastic Deformation
2004 - 2008	Contact person, SOCRATES/ERASMUS- Thematic Network Project- TREE: Teaching and Research in Engineering in Europe, Reference: 116340-CP-1-2004-1-IT-ERASMUS-TN
2005	Turkish-French Univ. & Scientific Coop. Project: Characterization of Monophase Microstructures in Steels by Magnetic Barkhausen Noise and Ultrasonic Velocity Measurements (INSA- GEMPPM Lyon)
2003 - 2005	MISAG-HUN-2: Development of Mathematical Models for the Description of Non-Isothermal Transformations in Steels (Bay Zoltan Inst. for Mater. Sci. & Techn., Hungary)
2003-2004	Characterization of Heat Treated Steels by Ultrasonic Measurements (BAP-2003-07-02-00-91, METU)
1999-2000	Investigation of SiC Reinforced Al-Matrix Composites by Ultrasonic Method (AFP-99-03.08.03 METU)
1995 - 1996	"Establishing a Materials Sci. Education Network in Europa" EU-Program on Human Capital & Mobility, CHRT930218-CIPD940006, National Representative on behalf of Chamber of Metallurgical Eng.
08-09 1995	"Residual Stresses- Welding and Shot-Peening: Numerical Analysis, Destructive and X-ray Diffraction Measurement Methods" BAM-Berlin, MPA (Stuttgart Uni.), Inst. für Werkstofftechnik (Kassel Uni.)
06 - 09.1993	"Non-Destructive Determination of Residual Stresses, Comp. Simulation of Heat Treat. Processes" BAM-Berlin, Stiftung Inst. für Werkstofftechnik (Bremen Uni.), Inst. für Werkstofftechnik (Karlsruhe Uni.), Fraunhofer Inst. für ZfP (Saarbrücken Uni.)
01.91 - 02.92	"X-Ray Determination of Residual Stresses in Quenched Parts", Lab. of X-Ray Diffraction and Microanalysis in Physical Metallurgy in BAM (Federal Inst. for Materials Research and Testing), Berlin - Germany.

## THESIS

MSc.METU-02.1989 (No.28658): Finite Element Simulation of Rigid Plastic Deformation on Microcomputers
PhD.METU-08.1995 (No.48037): Finite Element Modelling & Measurement of Stress Evolution in Quenching Processes

## CERTIFICATES

German Society of Non-Destructive Testing (DGZfP) Wallet card no. W-004-21508.

Radiographic Testing Level 3, Ultrasonic Testing Level 3, Magnetic Particle Testing Level 3, Penetrant Testing Level 3.

## SEMINARS ATTENDED

TÜRKAK, Ankara 08.05.2018	EN ISO/IEC 17025 Meeting
TÜRKAK, Ankara 20.02.2016	EN ISO/IEC 17024 Training for Evaluators
TÜRKAK, Ankara 04.06.2014	EN ISO/IEC 17024 Training for Personnel Certification
TÜRKAK, Ankara 23-25.02.2011	EN ISO/IEC 17025 Assessor Training – Module B, C
MÜDEK, İstanbul 13-14.09.2018	Training for Program Evaluators ( <i>Assoc. for Eval &amp; Accr. of Engineering Programs</i> )
TÜBİTAK-TUSSIDE 4-8.07.2006	Training for Project Management
TÜRKAK, Ankara 09-10.03.2002	EN ISO/IEC 17025 Training for Accreditation of Testing Laboratories
YÖK-TÜBİTAK, Ankara 29-30.05.2000	Effective Teaching Workshop ( <i>R.M. Felder, R. Brent, North California State Uni.</i> )
National Productivity Center – Ankara, Sept-Nov. 1995	Meeting management, Training management, Time management, Budget planning & control, Cost analysis, Organizational structure, Management strategy, Strategic planning for organizational change, Motivation and team work

## MEMBERSHIPS

ASNT (The American Society for NDT) Member No: 175189
AWS (American Welding Society) Member No: 643603
Chamber of Metallurgical Engineers (Union of Engineers and Architects of Turkey)

## SCHOLARSHIPS

Turkish Scientific and Technical Research Council - Scholarship of M.Birsel Foundation for MSc study.
Scholarship of German Government (09.1990-02.1992, Germany)

## FULL PAPER in peer reviewed international journals

1. Gür CH, Review of Residual Stress Measurement by Magnetic Barkhausen Noise Technique, <i>Materials Performance and Characterization</i> , Vol 7, Issue 4, 2018_ doi: 10.1520/MPC20170080
2. Hizli H, Gür CH, Applicability of the Magnetic Barkhausen Noise Method for Nondestructive Measurement of Residual Stresses in the Carburized and Tempered 19CrNi5H Steels, <i>Research in ND Evaluation</i> _ doi: 10.1080/09349847.2017.1359711
3. Gürer G, Gür CH, Failure Analysis of Fretting Fatigue Initiation and Growth on Railway Axle Press-Fits, <i>Engineering Failure Analysis</i> , 84 (2018) 151-166_ doi: 10.1016/j.engfailanal.2017.06.054
4. Hizli H, Gür CH, Comparison of Electronic Speckle Laser Interferometry Hole-Drilling and X-ray Diffraction Techniques for Determination of Residual Stresses in the Heat Treated Steels, <i>J Nondestructive Evaluation</i> , 36 (2017) 42_ doi: 10.1007/s10921-017-0423-7.
5. Kotan G, Kalay YE, Gür CH, Long-Term Thermal Stability of Equal Channel Angular Pressed 2024 Aluminum Alloy, <i>Mater Sci Eng A</i> , 677 (2016) 307-315_ doi: 10.1016/j.msea.2016.09.048
6. 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, <i>Materials Evaluation</i> , 74 (2016) 418-423
7. Garipova N, Batıgün C, Gür CH, Numerical and Experimental Determination of the Residual Stress State in Multi-pass Welded API 5LX70 Plates, <i>Materials Testing</i> , 56 (2014) 831-836_ doi: 10.3139/120.110637
8. Mofid MA, Abdollah-zadeh A, Gür C 2017H, Investigating the Formation of Intermetallic Compounds during Friction Stir Welding of Magnesium Alloy to Aluminum Alloy in Air and under Liquid Nitrogen, <i>Int J Advanced Manufacturing Technology</i> , 71 (2014) 1493-1499_ doi: 10.1007/s00170-013-5565-x
9. Yurtisik K, Tirkes S, Dykhno I, Gür CH, Gürbüz R, Characterization of Duplex Stainless Steel Weld Metals Obtained by Hybrid Plasma- Gas Metal Arc Welding, <i>Soldag. Insp.</i> , 18 (2013) 207-216_ doi: 10.1590/S0104-92242013000300003
10. Kotan G, Tan E, Kalay YE, Gür CH, Homogenization of ECAPed Al 2024 Alloy through Age Hardening, <i>Mater Sci Eng A</i> , 559 (2013) 601-606_ doi: 10.1016/j.msea.2012.08.148
11. Mofid M.A, Abdollah-zadeh A, Malek Ghaini F, Gür CH, Submerged Friction Stir Welding under Water and under Liquid Nitrogen: An improved method to join Al alloys to Mg alloys, <i>Metallurgical &amp; Materials Trans. A</i> , 43A (2012) 5106-5114_ doi: 10.1007/s11661-012-1314-2
12. Gür CH, Simsir C, Simulation of Quenching – A Review, <i>Materials Performance and Characterization</i> , Vol. 1, No. 1, Paper ID MPC104479 (2012) 1-37
13. Maradit P, Şimşir C, Lübben T, Gür CH, Metallurgical Influence on Quench Distortion of SAE 52100 Long Cylinders, <i>Int Heat Treatment and Surface Engineering</i> , 5 (2011) 57-60
14. Oral I, Guzel H, Ahmetli G, Gür CH, Determining the Elastic Properties of Modified Polystyrenes by Sound Velocity Measurements, <i>Journal of Applied Polymer Science</i> , 121 (2011) 3425–3432_ doi: 10.1002/app.33860
15. Tan E, Kibar AA, Gür CH, Mechanical and Microstructural Characterization of 6061 Aluminum Alloy Strips Severely Deformed by Dissimilar Channel Angular Pressing, <i>Materials Characterization</i> , 62 (2011) 391-397_ doi: 10.1016/j.matchar.2011.01.016
16. Davut K, Gür CH, Monitoring the Microstructural Evolution in Spheroidized Steels by Magnetic Barkhausen Noise

Measurements, <b>J Nondestructive Evaluation</b> , 29 (2010) 241-247_ DOI: 10.1007/s10921-010-0082-4
17. Savaş S, Gür CH, Monitoring Variation of Surface Residual Stresses in the Shot Peened Steel Components by Magnetic Barkhausen Noise Method, <b>INSIGHT – J British Inst of NDT</b> , 52 (2010) 672-677_ DOI: 10.1784/insi.2010.52.12.672
18. Şimşir C, Karpuz P, Gür CH, Quantitative Analysis of the Influence of Strain Hardening on Equal Channel Angular Pressing Process, <b>Computational Materials Science</b> , 48 (2010) 633–639_ DOI: 10.1016/j.commatsci.2010.02.032
19. Tan E, Gür CH, Influence of DCAP Process on the Mechanical Properties of 6061 Al-Alloy Sheet, <b>Reviews on Advanced Materials Science</b> , 25 (2010) 189-193
20. Şimşir, C, Gür CH, A Simulation of the Quenching Process for Predicting Temperature, Microstructure and Residual Stresses, <b>Journal of Mechanical Engineering</b> , 56 (2010) 93-103
21. 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, <b>Mater Sci Eng A</b> , 527 (2010) 927-933_ DOI: 10.1016/j.msea.2009.09.006
22. Yelbay I, Çam I, Gür CH, Non Destructive Determination of Residual stress State in Steel Weldments by Magnetic Barkhausen Noise Technique, <b>NDT&amp;E International</b> , 43 (2010) 29-33_ DOI: 10.1016/j.ndteint.2009.08.003
23. Karpuz P, Şimşir C, Gür CH, Investigating the Effects of Hardening Behavior of Aluminum Alloys on Equal Channel Angular Pressing – A Finite Element Study, <b>Mater Sci Eng A</b> , 503 (2009) 148-151_ DOI: 10.1016/j.msea.2008.01.095
24. Şimşir C, Gür CH, A Review on Modeling and Simulation of Quenching, <b>J ASTM Int.</b> , 6 (2009) 1-29 (ID JAI101766)
25. Karpuz P, Şimşir C, Gür CH, Simulation of Equal Channel Angular Pressing Applied to Produce Structures with Ultrafine-sized Grains, <b>Int J Microstructure and Materials Properties</b> , 4 (2009) 356-367
26. Şimşir C, Gür CH, A FEM based Framework for Simulation of Thermal Treatments: Application to Steel Quenching, <b>Computational Materials Science</b> , 44 (2008) 588-600_ DOI: 10.1016/j.commatsci.2008.04.021
27. 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, <b>J Nondestructive Evaluation</b> , 27 (2008) 99-104_ DOI: 10.1007/s10921-008-0028-2
28. Şimşir C, Gür CH, 3D FEM Simulation of Steel Quenching and Investigation of the Effect of Asymmetric Geometry on Residual Stress Distribution, <b>Journal of Materials Processing Technology</b> , 207 (2008) 211-221_ DOI: 10.1016/j.jmatprotec.2007.12.074
29. Saraloğlu E, Tan E, Gür CH, Effect of ECAP and Post-aging Processes on 2024 Aluminum Alloy, <b>Steel Research International</b> , 79 (2008) Metal Forming special issue Vol.2 467-471
30. 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, <b>Research in ND Evaluation</b> 19 (2008) 44-60_ DOI: 10.1080/09349840701635278
31. Makszimus A, Gacsi Z, Gür CH, Investigation of the Microstructure and Hardness of SiC Reinforced Aluminum Matrix Composites, <b>Materials Science Forum</b> , 589 (2008) 239-244
32. Karpuz P, Şimşir C, Gür CH, Kim HS, Finite Element Investigation of the Effect of Hardening Behavior of Alloys on Equal Channel Angular Pressing Performance, <b>Materials Science Forum</b> , 584-586 (2008) 1021-1026
33. Şimşir C, Gür CH, A Mathematical Framework for Simulation of Thermal Processing of Materials, <b>Turkish J. Eng. Env. Sci.</b> , 32 (2008) 85-100
34. Davut K, Gür CH, Monitoring the microstructural changes during tempering of quenched SAE 5140 steel by magnetic Barkhausen noise, <b>J Nondestructive Evaluation</b> 26 (2007) 107-113_ DOI: 10.1007/s10921-007-0025-x
35. Kaplan M, Gür CH, Erdoğan M, Characterization of dual-phase steels using magnetic Barkhausen noise technique, <b>J Nondestructive Evaluation</b> , 26 (2007) 79-87_ DOI: 10.1007/s10921-007-0022-0
36. Gür CH, Çam I, Comparison of magnetic Barkhausen noise and ultrasonic velocity measurements for microstructure evaluation of SAE 1040 and SAE 4140 steels. <b>Mater Characterization</b> , 58 (2007) 447-454_ DOI: 10.1016/j.matchar.2006.06.008
37. Gacsi Z, Gür CH, Makszimus A., Pieczonka T, Investigation of Microstructure Inhomogeneity in SiC <sub>p</sub> -reinforced Aluminum Matrix Composites. <b>Materials Science Forum</b> , 534-536 (2007) 901-904
38. Kretz F, Gacsi Z, Gür CH, Microstructure Characterization of SiC <sub>p</sub> -reinforced Aluminum Matrix Composites by Newly Developed Computer-based Algorithms, <b>Materials Science Forum</b> , 534-536 (2007) 909-912
39. Gür CH, Çam I, Investigation of as-quenched and tempered commercial steels by magnetic Barkhausen noise method, <b>Int J Microstructure and Materials Properties</b> , 1 (2006) 208-218
40. Öztürk A, Gür CH, Determination of the influence of TiO <sub>2</sub> on the elastic properties of a mica based glass ceramic by ultrasonic velocity measurements, <b>J of Non-Crystalline Solids</b> , 351 (2005) 3655-3662_ DOI:10.1016/j.jnoncrsol.2005.09.022
41. Gür CH, Tuncer BO, Characterization of microstructural phases of steels by sound velocity measurement, <b>Materials Characterization</b> , 55 (2005) 160-166_ DOI: 10.1016/j.matchar.2005.05.002
42. Gür CH, Tuncer BO, Nondestructive investigation of the effect of quenching and tempering on medium-carbon low alloy steels, <b>Int J Microstructure and Materials Properties</b> , 1 (2005) 51-60
43. Gür CH, Tuncer BO, Microstructural investigation of SAE 1040 steel specimens by ultrasonic measurements, <b>INSIGHT – J British Inst of NDT</b> , 47 (2005) 421-424_ DOI:10.1784/insi.2005.47.7.421
44. Gür CH, Yıldız I, Non-destructive investigation on the effect of precipitation hardening on impact toughness of 7020 Al-Zn-Mg alloy, <b>Mater Sci Eng A</b> , 382/1-2 (2004) 395-400_ DOI: 10.1016/j.msea.2004.05.001
45. Gür CH, Arda EB, Effect of tube spinning and subsequent heat treatments on strength, microstructure and residual stress state of AISI/SAE 4140 steel, <b>Mater Sci Tech</b> , 19 (2003) 1590-1594_ DOI: 10.1179/026708303225008022
46. Gür CH, Investigation of microstructure-sound velocity relationship in SiC <sub>p</sub> reinforced aluminium metal matrix composites, <b>Mater Sci Eng A</b> , 361/1-2 (2003) 29-35_ DOI: 10.1016/S0921-5093(03)00568-9
47. Gür CH, Keleş Y, Ultrasonic characterisation of hot-rolled and heat-treated plain carbon steels, <b>INSIGHT – J British Inst of NDT</b> , 45 (2003) 615-620
48. Gür CH, Investigation of the influence of specimen geometry on quench behaviour of steels by X-ray determination of surface residual stresses, <b>Int J Mech Sci</b> , 44/7 (2002) 1335-1347_ DOI: 10.1016/S0020-7403(02)00051-6

49. Gür CH, Ögel B, Non-destructive microstructural characterization of aluminum matrix composites by ultrasonic techniques, <b>Materials Characterization</b> , 47/3-4 (2001) 227-233 DOI: 10.1016/S1044-5803(01)00174-7
50. Gür CH, Tekkaya AE, Numerical investigation of non-homogeneous plastic deformation in quenching process, <b>Mater Sci Eng A</b> , 319-321 (2001) 164-169 DOI: 10.1016/S0921-5093(01)01064-4
51. Gür CH, Aydınmakina B, Microstructural characterisation of ductile irons by measuring velocity and apparent attenuation of ultrasonic waves, <b>INSIGHT – J British Inst NDT</b> , 43 (2001) 731-734
52. Gür CH, Investigation of SiC <sub>p</sub> reinforced aluminium matrix composites by shear and longitudinal ultrasonic waves, <b>INSIGHT – J British Inst of NDT</b> , 43 (2001) 748-750
53. Gür CH, Tekkaya AE, Numerical and experimental analysis of quench induced stresses and microstructures, <b>J Mech Behaviour of Mater</b> , 9 (1998) 237-256
54. Gür CH, Quality management system in NDT laboratories: Accreditation as a testing laboratory, <b>INSIGHT- J British Inst NDT</b> , 40 (1998) 621-623
55. Tekin B, Gür CH, Ankara OA, Investigation of fatigue and creep damage in steam boiler pipes by ultrasonic testing, <b>INSIGHT- J British Inst NDT</b> , 39 (1997) 626-629
56. Gür CH, Tekkaya AE, Finite element simulation of quench hardening, <b>Steel Research</b> , 67 (1996) 298-306
57. Gür CH, Tekkaya AE, Schuler, W., Effect of boundary conditions and workpiece geometry on residual stresses and microstructure in quenching process, <b>Steel Research</b> , 67 (1996) 501-506

## INTERNATIONAL CONFERENCE PAPERS (in English)

1. Gür CH, Grum J, Yelbay Hİ, Pecnik B, Sturm R., Non-Destructive Characterization of Cold Rolled Low-Carbon Steels, <b>19<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> , 25-27 Oct 2018 Istanbul, Cong. Proc.
2. Batıgün C, Gür CH, Effect of Residual Stresses on the Structural Safety of the Butt Welded Structural Steels, <b>19<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> , 25-27 Oct 2018 Istanbul, Cong. Proc.
3. Kaleli T, Gür CH, Non-Destructive Determination of Surface Residual Stresses in the Carburized SAE 8620 Steel Components, <b>19<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> , 25-27 Oct 2018 Istanbul, Cong. Proc.
4. Çalışkan S, Gür CH, Non-Destructive Evaluation of Surface Residual Stresses in Shot-Peened Steels, <b>19<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> , 25-27 Oct 2018 Istanbul, Cong. Proc.
5. Kaleli T, Gür CH, Comparison of Two Procedures for Reliable Measurement of Residual Stress in Carburized Steels by Magnetic Barkhausen Noise Method, <b>12<sup>th</sup> European Conf. for NDT</b> , 11-15 June 2018 Gothenburg-Sweden, <a href="http://www.ndt.net/?id=22737">http://www.ndt.net/?id=22737</a>
6. Nondestructive Determination of Curing State of Rubbers during Vulcanization Process, <b>12<sup>th</sup> European Conf. for NDT</b> , 11-15 June 2018 Gothenburg-Sweden, <a href="http://www.ndt.net/?id=22825">http://www.ndt.net/?id=22825</a>
7. Çalışkan S, Gür CH, Investigating the Relationship between Shot-Peening Severity and Fatigue Life of AISI 4140 Steel by Magnetic Barkhausen Method, <b>12<sup>th</sup> European Conf. for NDT</b> , 11-15 June 2018 Gothenburg-Sweden, CD Proc (abstract)
8. Gür CH, Akçaoğlu FÜ, Monitoring the Directional Variations of Magnetic Barkhausen Emission in Ferritic Steel Sheets, <b>12<sup>th</sup> Int. Conf. on Barkhausen Noise and Micromagnetic Testing</b> , 24-26 Sept 2017 Dresden, CD Proc.
9. Gür CH, Nondestructive Monitoring of Pearlite Degradation in Medium Carbon Steels by Magnetic Barkhausen Noise Method, <b>14<sup>th</sup> Int Conf. of Slovenian Soc. for NDT</b> , 4-6 Sept 2017 Portoroz-Slovenia, Proc., 155-161
10. Gür CH, Nondestructive Characterization of Microstructures of Heat-Treated Steels by Magnetic Barkhausen Noise Technique, <b>TMS 2017 San Diego</b> , 26 Feb-02 March 2017, Proc. ISSN 2367-1181: Characterization of Minerals, Metals, and Materials, 371-376
11. Tan G, Kalay YE, Gür CH, The Effects of ECAP on the Precipitation Behaviour of Al 2024, <b>TMS 2017 San Diego</b>
12. Cagirci M, Tosun U, Ertürk MT, Gür CH, Effect of Microstructure on Fracture Toughness of Coarse-Grain Heat Affected Zone in As-Welded X70M Steel, <b>18<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> , 29 Sept-01 Oct 2016 Istanbul, Proc., 928-931
13. Hızlı H, Kaleli T, Gür CH, Measurement of Residual Stresses in the Carburized Steels by Non-Destructive Techniques, <b>18<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> , 29 Sept-01 Oct 2016 Istanbul, Cong. Proc., 439-442
14. Kaleli T, Gür CH, Non-Destructive Determination of Residual Stresses in the Spiral Submerged Arc Welded Steel Pipes, <b>19<sup>th</sup> World Cong. for NDT</b> 13-17 June 2016 Munich, CD Proc. Tu.1.C.3
15. Yalçın M, Yelbay HI, Gür CH, PoD Analysis of Phased Array and Conventional Ultrasonic Techniques, <b>19<sup>th</sup> World Cong. for NDT</b> 13-17 June 2016 Munich, CD Proc. P150.
16. Hızlı H, Davut K, Şimşir C, Gür CH, Non-destructive Monitoring of Variations in Microstructure and Residual Stress in the Carburized Steel, <b>19<sup>th</sup> World Cong. for NDT</b> 13-17 June 2016 Munich, CD Proc. Tu.2.C.1
17. Gür CH, Applicability of Micromagnetic and Ultrasonic Methods for Non-Destructive Monitoring of Microstructure Variations in Steels Induced by Heat Treatment, <b>5<sup>th</sup> Int. Conf. on Distortion Eng.</b> 23-25 Sept 2015 Bremen, Proceedings, 329-334
18. Hızlı H, Gür CH, Nondestructive Monitoring of the Effects of Carburizing on 19CrNi5H Steel by Magnetic Barkhausen Noise Method, <b>11<sup>th</sup> Int Conf on Barkhausen Noise &amp; Micromagnetic Testing</b> , 18-20 June 2015 Kuşadası, CD Proc., No. 19
19. Gür CH, Savaş S, Measuring the Surface Residual Stresses in Shot Peened Steel Components by Magnetic Barkhausen Noise Method, <b>11<sup>th</sup> Int Conf on Barkhausen Noise &amp; Micromagnetic Testing</b> , 18-20 June 2015 Kuşadası, CD Proc., No. 18
20. Gür CH, Erian G, Batıgün C, Çam İ, Monitoring the Effects of Subsequent Weld Runs on Surface Residual Stresses in Steel Plates by Magnetic Barkhausen Noise Method, <b>11<sup>th</sup> Int Conf on Barkhausen Noise &amp; Micromagnetic Testing</b> , 18-20 June 2015 Kuşadası, CD Proc., No. 17
21. Akcaoglu F U, Gür CH, Monitoring Magnetic Anisotropy Variations in Cold-Rolled Steel Sheets by Magnetic Barkhausen Noise Method, <b>11<sup>th</sup> European Conference on NDT</b> 06-10 Oct 2014 Prag-Czech Rep., CD Proc. No: 458

22. Müştak O, Davut K, Şimşir C, Gür CH, Experimental Investigation of Transformation Plasticity of SAE 52100 Steel, <b>2nd Int Metal Forming Conf.</b> 25-26 Sept 2014-Ankara,
23. Gür CH, Estimation of Residual Stresses in Steel Components by Magnetic Barkhausen Noise Technique: Welding and Shot-Peening, <b>17<sup>th</sup> Int. Metallurgical &amp; Materials Cong.</b> 11-13 Sept 2014 Istanbul, CD-Proc., 354-360
24. Garipova N, Batıgün C, Gür CH, Determination of Residual Stress Field on a Multi-Pass Welded Butt-Joint by Finite Element Modeling, <b>17<sup>th</sup> Int. Metallurgical &amp; Materials Cong.</b> 11-13 Sept 2014-Istanbul, CD-Proc., 380-388
25. Müştak O, Davut K, Şimşir C, Gür CH, Determination of Flow Curves of Metastable Austenite, <b>17<sup>th</sup> Int. Metallurgical &amp; Materials Cong.</b> 11-13 Sept 2014-Istanbul, CD-Proc., 464-470
26. 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, <b>14th Asia Pacific Conf on NDT</b> 18-22 Nov 2013-Mumbai, CD Proc CP30
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35. Tuncer BO, Gür CH, Isıl İşlem Uygulanan Çeliklerde Mikroyapı ve Ultrasonik Özellikler Arasındaki İlişki, <b>CD-Proc of 2<sup>nd</sup> Int NDT Symp,</b> 9-11 Oct. 2003 Yeditepe Üniv.-İstanbul, Paper No.12
36. Sonat F, Sarioğlu F, Gür CH, 2024-T3 Alüminyum Alaşımında Yorulma Çatlaklarının Ultrasonik Yöntemlerle Tesbiti ve İzlenmesi, <b>Proc of 6<sup>th</sup> Int Fracture Conf,</b> 10-12 Sept 2003 Konya, 279-284
37. Gür CH, Arda EB, Sıvama İşleminin AISI/SAE 4140 Çelik Boruların Mekanik Özelliklerine ve Mikroyapısına Etkisi, <b>CD-Proc of 11<sup>th</sup> Int Metallurgy-Materials Cong,</b> 5-8 June 2002 İstanbul, No:8.20, 1399-1406
38. Ataş E, Gür CH, SiC Katkılı Alüminyum Metal Matrisli Kompozitlerin Özelliklerinin Ultrasonik Tekniklerle Belirlenmesi, <b>Proc of 10<sup>th</sup> Int Metallurgy-Materials Cong,</b> 24-28 May 2000 İstanbul, Cilt I, 591-598
39. Aydınmakina B, Gür CH, Küresel Dökme Demirlerde Malzeme Özelliklerinin Ultrasonik Ölçümlerle Tesbiti, <b>Proc of 10<sup>th</sup> Int Metallurgy-Materials Cong,</b> 24-28 May 2000 İstanbul, Cilt I, 647-654
40. Gür CH, Kaynak Dikişlerinin Tahribatsız Yöntemlerle Muayenesinde Avrupa Standartları, <b>Proc of 2nd National Welding Technology Cong,</b> 12-13 Nov. 1999, Ankara, 231-237
41. Gür CH, Tahribatsız Tekniklerin Malzeme Özelliklerinin Belirlenmesindeki Yeri, <b>Proc of 1<sup>st</sup> Int NDT Symp,</b> 29 Sept.-01 Oct. 1999 Ankara, 357-372
42. Gür CH, Tekkaya AT, Öztürk T, Schuler W, Çeliğe Su Verme İşleminin Bilgisayarda Modellenmesi, <b>Proc of 9<sup>th</sup> Int Metallurgy-Materials Cong,</b> 11-15 June 1997 İstanbul, Vol. II, 1427-1432
43. Gür, C.H., Kaynaklı Birleştirmelerin Tahribatsız Muayenesinde Yeni EN Standartları, <b>Proc of Int Welding Technology Symp,</b> Gedik Eğitim Vakfı-İstanbul, 15-17 May 1996, 375-384
44. Gür, C.H., Doyum, A.B., Kaynaklı Birleşmelerin Tahribatsız Yöntemlerle Muayenesi, <b>Proc of Int Welding Technology Symp,</b> Gedik Eğitim Vakfı-İstanbul, 15-17 May 1996, 326-335
45. Gür CH, Schuler W, Öztürk T, Çeliklerde Su Verme İşlemi ve Parça Geometrisinin Kalıntı Gerilmelere Olan Etkilerinin X-ışınları Kırınımı ile İncelenmesi, <b>Proc of 8<sup>th</sup> Int Metallurgy and Materials Cong,</b> 6-9 June 1995, İstanbul, Vol.II, 757-763
46. Gür CH, Özkan CS, Tekkaya AE, Rijit-plastik ve Rijit-visko-plastik Şekil Değiştirmenin Sonlu Eleman Yöntemi ile Mikrobiyosayarlarda Analizi, <b>Proc . 6<sup>th</sup> National Mechanics Cong,</b> 1990 , Vol. II, 448-459
47. Tekkaya AE, Özkan CS, Gür CH , Eksenel Simetriye Sahip Parçalarda Soğuk ve Sıcak Dövme İşlemlerinin Sonlu Eleman Yöntemi ile Modellenmesi, <b>Proc. 5<sup>th</sup> Metallurgy &amp; Materials Cong,</b> 1988, 863-873

## PAPERS in national journals

1. Gür, CH, Türkiye'de Metalurji Mühendisliği Eğitiminin Tarihçesi, <b>Metalurji,</b> 182 (2016) 18-25.
2. Hızlı H, Kaleli T, Gür CH, Sementasyon İşlemi Uygulanan Çeliklerdeki Kalıntı Gerilmelerin Tahribatsız Tekniklerle Ölçülmesi, <b>Metalurji ,</b> 181 (2016) 30-35.
3. Tolungüç B, Yurtışık K, Tirkeş S, Gür CH, Batıgün C, Ertürk MT, 2205 Dupleks Paslanmaz Çeliklerinin Hibrit Plazma Ark Kaynaklı Birleştirmelerinde Mikroyapı Dönüşümleri, <b>Mühendis ve Makina,</b> Sayı 624, 53 (2012) 77-82.
4. Tan E, Saraloğlu E, Gür CH, Aşırı Plastik Deformasyon ve Çökelme Sertleşmesi İşlemlerinin 2024 Alüminyum Alaşımının Özelliklerine Etkisi, <b>Metalurji,</b> 155 (2010) 33-41
5. Filiz Z, Batıgün C, Tansal M, Gür CH, Kaynak Tekniği ve Tahribatsız Muayene Personeli Eğitimi ve Belgelendirilmesi, <b>Mühendis ve Makina,</b> 605 (2010) 7-12
6. Gür CH, Tahribatsız muayene laboratuvarlarında kalite sistemi-EN 45001'e göre akreditasyon, <b>Metalurji,</b> 115 (1998) 39-43
7. Gür CH, Çevre yönetimi ve sürekli gelişme kavramı, <b>Metalurji ,</b> 110 (1997) 3-6
8. Gür CH, Tahribatsız teknikler tahribatlı testlerin yerini mi alıyor?, <b>MM-Makina Magazin</b> 8 (1996) 26-30
9. Gür CH, Çevre yönetim sistemi ve metalurji-malzeme sektörü, <b>Metalurji,</b> 103 (1996) 32-38
10. Mahmutyazıcıoğlu N, Gür CH, Tahribatsız muayenenin kalite güvencesindeki yeri ve Türkiye'deki tarihsel gelişimi, <b>Metalurji</b> 103 (1996) 54-57
11. Gür CH, Avrupa Birliği kalite sistemi ve tahribatsız muayene standartları, <b>Metalurji,</b> 99 (1995) 47-55
12. Gür CH, Isıl işlem kökenli yüzey çatlakları ve tahribatsız yöntemlerle muayene, <b>Metalurji,</b> 95 (1995) 23-28



13. Gür CH, CE-markası: Avrupa Birliği ve kalite kavramına yeni yaklaşımlar, <b>Metalurji</b> , 94 (1995) 9-15
14. Gür CH, Malzemelerin metalurjik ve mekanik özelliklerinin tahribatsız yöntemlerle belirlenmesi, <b>Metalurji</b> , 91 (1994) 16-23

## EDITORIAL ACTIVITIES

<b>Member, Editorial Board: Int. J of Microstructure &amp; Materials Properties (IJMMP) 2005-...</b>
<b>Member, European Advisory Panel: INSIGHT (J of British Inst. of NDT, European Issue) 1995-....</b>
Member, Editorial Board: Materials Performance and Characterization (MPC) - ASTM online journal, 2013-2016
Member, Advisory Board: Gazi University Journal of Science, 2006-...
Editor, Proceedings of 3 <sup>rd</sup> Int NDT Symposium (17-19 April 2008 İstanbul)
Proceedings e-book of 11 <sup>th</sup> Int. Metallurgy & Materials Cong. (5-8 June 2002, İstanbul), Editorial Board Member
Proceedings of 10 <sup>th</sup> Int. Metallurgy and Materials Cong. (24-28 May 2000, İstanbul), 3 volumes, Editorial Board Member
Proceedings of 9 <sup>th</sup> Int. Metallurgy and Materials Cong. (11-15 June 1997, İstanbul), 2 volumes, Editorial Board Member
Editor, Proceedings of 1 <sup>st</sup> Int. Non-destructive Testing Symp. (29 Sept.-01 Oct. 1999, Ankara), 1 volume
Managing Editor, METALURJI - Journal of Chamber of Metallurgical Engineers of Turkey (1996–2000)
Editorial Board Member of the Journal of CME METALURJI, 03.94 - 02.96

## ACTIVITIES IN CONGRESSES, SEMINARS AND INTERNATIONAL PROJECTS

Member, Organization Comm., 19 <sup>th</sup> Int Metallurgy & Materials Congress, 25-27 Oct 2018, İstanbul
Member, Int. Scientific Comm., 14 <sup>th</sup> Int. Conf. of Slovenian Soc. for NDT, 4-6 Sept 2017, Portoroz-Slovenia
Member, Int. Scientific Comm., 19 <sup>th</sup> World NDT Cong., 13-17 June 2016, Berlin-Germany
Member, Scientific Comm., 5 <sup>th</sup> Heat Treatment Symp., 02-03 June 2016, İstanbul
Member, Int. Comm., 5 <sup>th</sup> Int. Distortion Engineering Conf. – IDE 2015, 23-25 Sept 2015, Bremen-Germany
Int. Organization Committee member, 6 <sup>th</sup> Int. Conf. on Quenching & Control of Distortion, 10-13 Sept 2012, Chicago-USA
12th Int. Conf. “Application of Contemporary Non-destructive Testing in Engineering” 3-5 Sept. 2012 Slovenia
Member, Int. Comm., 3 <sup>rd</sup> Int. Distortion Engineering Conf. – IDE 2011, 14-16 Sept 2011, Bremen-Germany
Member, Organization Comm., Int. Symp. on NDT of Materials & Structures, 15-18 May 2011, İstanbul
Chairman, Organizing Comm., 15 <sup>th</sup> Int Metallurgy & Materials Congress, 11-13 Nov 2010, İstanbul
Member, Int. Advisory Comm., 4 <sup>th</sup> Int Conf Thermal Process Modeling & Computer Simulation, 31 May-2 June 2010, Shanghai
Member, Scientific Comm. 10 <sup>th</sup> Int. Conf. on NDT, 1-3 Sept 2009, Ljubljana-Slovenia
Member, Int Advisory Comm. 1 <sup>st</sup> Int Conf on Welding Technologies, 11-13 June 2009 Ankara
Member, Organizing Committee of 14 <sup>th</sup> Int. Metallurgy and Materials Cong., 16-18 Oct 2008 İstanbul
Chairman, Organizing Committee of 3 <sup>rd</sup> Int NDT Symposium, 17-19 April 2008 İstanbul
Member, Programme Comm. 6 <sup>th</sup> Hungarian Conf. on Materials Science, Testing and Informatics, 14-16 Oct. 2007
Member, Scientific Comm. 4 <sup>th</sup> Int. Conf. on NDT, 11-14 Oct. 2007, Chania-Greece
Coordinator, 13 <sup>th</sup> International Metallurgy and Materials Congress, Nov 2006 İstanbul
Member, Scientific Comm. 5 <sup>th</sup> Hungarian Conf. on Materials Science, Testing and Informatics, 9-11 Oct. 2005
Member, Int. Comm. of 1 <sup>st</sup> Int. Conf. on Distortion Engineering, 14-16 Sept. 2005 Bremen
Member, Sci. Com., 8 <sup>th</sup> Int Conf “Application of contemporary NDT in Engineering”, 1-3 Sept 2005, Portoroz, Slovenia
Member, Organizing Committee of 12 <sup>th</sup> Int. Metallurgy and Materials Cong., 28 Sept-2 Oct 2005 İstanbul
Member, Int. Com. of 2 <sup>nd</sup> Int. Conf. on Thermal Process Modelling & Comp. Simulation, March 2003 Nancy
Member, Organizing Committee of 11 <sup>th</sup> Int. Metallurgy and Materials Cong., June 2001 İstanbul
Coordinator, 10 <sup>th</sup> International Metallurgy and Materials Congress, May 2000 İstanbul
Coordinator, 1 <sup>st</sup> International NDT Symp., 29.09-01.10-1999 Ankara
Coordinator of “Environmental Management & Application to Metallurgy Sector” and “Accreditation, Certification, EU-Directives” seminars, June 1998 METU - Ankara
Coordinator, 9 <sup>th</sup> International Metallurgy and Materials Congress, June 1997 İstanbul
Member, Int. Advisory Board of JUNIOR-EUROMAT’96, August 1996 Lausanne-Switzerland

## ADMINISTRATIVE DUTIES

01.2017-..	METU-Northern Cyprus Campus, Academic Personal Committee, Member
May 2012- ...	Chair, METU – Dept. of Metallurgical and Materials Engineering
2007- ...	Director, METU - Welding Technology and NDT Research/Application Centre
01.2010 - ..	Executive Board Member, Atilim Univ. Metal Forming Application and Research Excellence Center
1995 - 2006	<i>Quality Manager, METU - Welding Techn. &amp; NDT Centre and Deputy Head of NDT Section</i>
10.2003-10.06	<i>Member, Engineering Faculty Executive Board - METU</i>
07.2005-07.06	<i>Member, Standard Preparation Committee for Metallurgy - Turkish Standards Institute</i>
09.2001-07.05	<i>Chairman, Standard Preparation Committee for Welding and NDT - Turkish Standards Institute</i>
2001-02	<i>Member, Engineering Faculty Board - METU</i>
01.98–12.99	<i>Chairman, Non-Destructive Testing Committee, Chamber of Metallurgical Engineers of Turkey</i>
10.98 – 06.99	<i>Member, Committee for Accreditation and Certification - Turkish Standards Institute</i>
02.96 – 02.98	<i>Secretary General, Chamber of Metallurgical Engineers of Turkey</i>
1992 - 93	<i>Member, Standard Preparation Committee for NDT - Turkish Standards Institute</i>

**SEMINARS GIVEN**

01.07.2004	"A finite element model for quenching of steels", Otto-von-Guericke Univ. Magdeburg
12.07.2004	"Modelling of phase transformations during quenching of steels", Bay Zoltan Institute for Materials Sci and Technology, Budapest

**LECTURES OFFERED**

MetE 230	Engineering Materials ( <i>oriented for Mechanical Engineering</i> )
MetE 304	Fundamentals of Mechanical Shaping
MetE 462	Residual Stresses in Materials Processing
MetE 464	Heat Treatment of Metals

**SUPERVISED MSc/PhD THESES (37 MSc, 5 PhD)**

July 2018	Investigating The Fracture Behaviour of X70M Linepipe Steel Girth Weldments via Single Edge Notched Tension and Bend Tests, <i>Uygar Tosun</i> (co-supervisor: Dr. S. Tirkeş)
June 2018	Microstructure Control of AISI 4135 for Optimization of Fatigue and Fracture Performance, <i>Burak Özcan</i> (co-supervisor: Dr. K. Yurtışık)
Jan 2018	Determination of Shot Peening Effect on Fatigue Behaviour of AISI 4140 Steel by Non-Destructive Measurement of Surface Residual Stresses, <i>Salim Çalışkan</i>
June 2017	Investigation of Key-Hole Weldability of Line Pipe Steel Grade X70M in Terms of Fracture Toughness Properties, <i>Mehmet Çağırıcı</i> (co-supervisor: Dr. Koray Yurtışık)
April 2017	<b>(PhD)</b> Numerical Prediction and Experimental Investigation of Fretting Fatigue Crack Initiation at Railway Axle-Wheel Contacts, <i>Göksu Gürer</i>
Jan 2017	Determination of Residual Stress State in SAE/AISI 8620 Carburized Steel by Non-Destructive Methods, <i>Tuğçe Kaleli</i>
Sept 2016	<b>(PhD)</b> Numerical Investigation of Residual Stresses, Distortion and Microstructure Evolution in Multi-Pass Welded Steel Components, <i>Nuriya Garipova</i> (co-supervisor: Dr. C. Batıgün)
Sept 2016	Non-Destructive Monitoring of the Variations in Microstructure and Residual Stress in Carburized Steels, <i>Hüseyin Hızlı</i>
Feb 2016	Utilization of Friction Stir Processing to Improve the Mechanical Properties of Gas Metal Arc Welded 5083 Aluminum Alloy Plates, <i>Shahin Takht Firouzeh</i>
Aug 2015	Investigating the Reliability of Ultrasonic Phased Array Method and Conventional Ultrasonic Testing for Detection of Defects in Austenitic Stainless Steels, <i>Bahadır Akgün</i>
June 2015	Effect of Friction Stir Processing on Fracture Toughness and Crack Growth Behaviour of Fusion Welded 5083 Grade Aluminum Plates, <i>Günseli Akçay</i>
Dec 2014	Effects of Friction Stir Processing on Microstructure and Fatigue Crack Growth Behaviour of Gas Metal Arc Welded Al-Alloy, <i>Cansu Yazganarıkkan</i>
Sept 2014	<b>(PhD)</b> Investigation of Microstructural Homogeneity and Thermal Stability of Equal Channel Angular Pressed and Aged 2024 Al-Alloy, <i>Güher Kotan</i> , (co-supervisor: Assist.Prof.Dr. Y.E. Kalay)
Sept 2014	Characterization of SAE 52100 Bearing Steel for Finite Element Simulation of Through-Hardening Process, <i>Ozan Müştak</i> (co-supervisor: Assist.Prof.Dr. C. Şimşir)
Sept 2014	Comparison of the Flaw Detection Abilities of Phased-Array and Conventional Ultrasonic Testing Methods in Various Steels, <i>Murat Yalçın</i>
Jan 2013	Investigating the Effect of Deformation and Annealing Texture on Magnetic Anisotropy in Low-C Steel Sheets by Magnetic Barkhausen Noise, <i>F. Ümit Akçaoğlu</i>
Aug 2012	Non-Destructive Evaluation of Residual Stresses in the Multi-Pass Steel Weldments, <i>Gökhan Erian</i>
Jan 2012	Microstructural & Mechanical Characterization of Duplex Stainless Steel Grade 2205 Joined by Hybrid Plasma & Gas Metal Arc Welding, <i>Burcu Tolungüç</i> (co-supervisor: Prof.Dr. R.Gürbüz)
Jan 2012	<b>(PhD)</b> Investigation of the Texture Evolution and Mechanical Flow Response and Anisotropy in ZK60 Mg-Alloy Processed by Equal Channel Angular Pressing, <i>Pınar Karpuz</i> (co-supervisor: Prof.Dr. İ.Karaman – Texas A&M)
Feb 2011	Experimental and FE Analysis of the Residual Stress State in Deep-Drawn Sheet Metals, <i>Sinem Adıgüzel</i>
2010	Investigating the Influence of Quench Process Parameters on Distortion of Steel Components, <i>B. Pelin Maradit</i> (co-supervisor: Dr. T. Lübben - IWT-Bremen)
July 2010	Monitoring Variation of Surface Residual Stresses in the Shot-Peened Steel Components by Magnetic Barkhausen Noise Method, <i>Serdar Savaş</i> (co-supervisor: Prof.Dr. B. Ögel)
July 2010	Investigation of the Effect of Dissimilar Channel Angular Pressing Method to the Mechanical and Microstructural Properties of 6061 Al-Alloy Sheets, <i>Alp Aykut Kibar</i> (co-supervisor: Prof.Dr. B. Ögel)
Jan 2010	Experimental Investigation of Residual Stresses Introduced via Shot Peening and Their Effect on Fatigue Life of Ball Bearings, <i>Ali Küçükıyılmaz</i>
June 2009	Determination of Residual Stress State in Steel Weldments, <i>H. Ilker Yelbay</i>
June 2009	Characterization of Ultra-Fine Grained Steel Samples Produced by High Pressure Torsion via Magnetic Barkhausen Noise Analysis, <i>Sadık Bayramoğlu</i> (co-sup.: Prof.Dr. I. Alexandrov, Ufa State Aviation Univ)
June 2009	Design and Production of A Dissimilar Channel Angular Pressing System to Obtain High Strength Aluminum Alloy Sheets, <i>Göktürk E. Uzunçakmak</i>
Aug 2008	Effect of ECAP and Subsequent Heat Treatments on Microstructure and Mechanical Properties of 2024 Aluminum Alloy, <i>Ebru Saraloğlu</i> (co-supervisor: Prof.Dr. T. Öztürk)

Feb 2008	<b>(PhD)</b> 3D Simulation of Steel Quenching to Determine Microstructure and Residual Stresses, <i>Caner Şimşir</i>
Dec 2006	Characterization of Steel Microstructures by Magnetic Barkhausen Noise Analysis, <i>Kemal Davut</i>
Sept 2006	Characterization of Dual Phase Steels by Using Magnetic Barkhausen Noise Analysis, <i>Mücahit Kaplan</i> (co-supervisor Prof.Dr. M. Erdoğan - Gazi Univ.)
Jan 2006	Microstructural Characterization of Hypoeutectoid Steels Quenched from the Ae1-Ae3 Intercritical Temperature Range by Magnetic Barkhausen Noise Technique, <i>Beril Boyacıoğlu</i>
Dec 2005	Finite Element Modeling of Stress Evolution in Quenching Process, <i>Doruk Doğu</i>
April 2005	Investigation of the Deep Drawability of Steel and Aluminium Sheets by Finite Element Simulation, <i>Çağlar Sönmez</i> (co-supervisor Prof.Dr. A.E. Tekkaya)
Dec 2003	Effect of Heat Treatment and Chemical Composition on Microstructure and Mechanical Properties of Hadfield Steels, <i>Serhat Alyaz</i>
Dec 2002	Computer Modelling for Propagation of Ultrasonic Waves in Solid Polycrystalline Structures, <i>Orcan Kolankaya</i> (Co-supervisor Prof.Dr. A.B. Boyum)
Sept 2002	Nondestructive Investigation of Age Hardening of Aluminium Alloys by Sound Velocity and Electrical Conductivity Measurements, <i>İnci Yıldız</i>
Aug 2002	Microstructural Characterization of Isothermally Heat Treated Steels by Ultrasonics, <i>B. Orkun Tuncer</i>
Apr 2002	The Effect of Microstructure and Hardness on Acoustic Properties of Hypoeutectoid Plain-C Steels, <i>Yankı Keleş</i> (co-supervisor Prof. Dr. E.Tekin)
Dec 2001	Investigation of the Effect of Spinning Process on the Mechanical Properties and Microstructure of AISI/SAE 4140 Steel, <i>E. Burçak Arda</i>
Apr 2001	Computer Modeling with ANSYS Software to Investigate the Evolution of Thermal Stresses and Residual Stresses During Quenching, <i>R. Eren Akdur</i>
Sept 2000	Determination of Microstructural Properties of PM Al-SiC Composites by Ultrasonic Techniques, <i>Esra Ataş</i> (co-supervisor Prof. Dr. B. Ögel)
May 2000	Non-destructive Determination of Graphite Morphology, Nodularity and Matrix Phases in Nodular Cast Irons by Ultrasonic Techniques, <i>Birand Aydınmakina</i>

### Co-supervisor of the following Theses

Sept 2012	<b>(PhD)</b> Severe Plastic Deformation of Age Hardenable Al-Alloys, <i>Evren Tan</i> (Supervisor: Prof.Dr. Bilgehan Ögel)
Aug 2004	Effect of Spheroidizing on Machinability Characteristics and Microstructure of Medium Carbon Steels, <i>Emre Yanardağ</i> (Supervisor: Prof.Dr. A. B. Doyum – Mech. Eng. Dept.)
Sept 2003	Detection and Monitoring of Small Surface-Breaking Fatigue Cracks in Aluminium 2024-T3 by Ultrasonic Methods, <i>Ferhat Sonat</i> (Supervisor: Prof.Dr. F. Sarıoğlu)
Nov 2002	Correlation between Ultrasonic Properties and Heat Treatment Conditions for Some Steels, <i>Cem Volkan Bozay</i> (Supervisor: Prof.Dr. A. B. Doyum – Mech. Eng. Dept.)
Jan 2002	Investigation of the Effect of Titania Additions on the Strength and Elastic Modulus of a Mica Glass Ceramic by Bending Test and Ultrasonic Velocity Measurements, <i>Aslı Dereci</i> (Supervisor: Assoc.Prof.Dr. A. Öztürk)

### ATTENDED ACTIVITIES

19 <sup>th</sup> Int. Metallurgy and Materials Cong.	İstanbul	25-27 Oct	2018
12 <sup>th</sup> European Congress for NDT	Göteborg - Sweden	11-15 June	
10 <sup>th</sup> National Welding Technology Cong.	Ankara	17-18 Nov	2017
12 <sup>th</sup> Int. Conf. on Barkhausen Noise and Micromagnetic Testing	Dresden - Germany	24-26 Sept	
14 <sup>th</sup> Int. Conf. of Slovenian Soc. for Non-Destructive Testing	Portoroz - Slovenia	4-6 Sept	
TMS - 146 <sup>th</sup> Annual Meeting	San Diego - USA	26 Feb-2 March	
18 <sup>th</sup> Int. Metallurgy and Materials Cong.	İstanbul	29 Sept-01 Oct	2016
19 <sup>th</sup> World Congress for NDT	Munich - Germany	13-17 June	
5 <sup>th</sup> Heat Treatment Symp.	İstanbul	2-3 June	
9 <sup>th</sup> National Welding Technology Cong.	Ankara	20-21 Nov	2015
7 <sup>th</sup> Aluminum Symposium	İstanbul	9 Oct	
5 <sup>th</sup> Int. Conf. on Distortion Engineering	Bremen - Germany	23-25 Sept	
Technical Visit ( <i>Faculty of Mechanical Eng, Uni. of Ljubljana</i> )	Ljubljana - Slovenia	13-18 Sept	
11 <sup>th</sup> Int. Conf. on Barkhausen Noise and Micromagnetic Testing	Kusadası	18-20 June	
6 <sup>th</sup> North American Materials Education Symposium	Ohio State Univ., USA	26-27 March	2014
1 <sup>st</sup> Asian Materials Education Symposium	Singapore	10-12 Dec	
11 <sup>th</sup> European Conf. for NDT	Prag - Czech Rep.	06-10 Oct	
2 <sup>nd</sup> Int. Metal Forming Conf.	Ankara	25-26 Sept	
17 <sup>th</sup> Int. Metallurgy and Materials Cong.	İstanbul	11-13 Sept	2013
14 <sup>th</sup> Asia Pacific Conf. on NDT	Mumbai – India	18-22 Nov	
4 <sup>th</sup> Heat Treatment Symp.	İstanbul	24-25 Oct	
ASME Pressure Vessels & Piping Conf. – PVP 2013	Paris - France	14-18 July	

6 <sup>th</sup> Int. Quenching and Control of Distortion Conf.	Chicago - USA	10-13 Sept	<b>2012</b>
18 <sup>th</sup> World Congress for NDT (WCNDT)	Durban - South Africa	16-20 April	
8 <sup>th</sup> National Welding Technology Cong.	Ankara	18-19 Nov	<b>2011</b>
ASNT (American Soc. for NDT) - Region 19 Meeting	Dubai - UAE	13 Oct	
6 <sup>th</sup> Int. Powder Metallurgy Cong.	Ankara	5-7 Oct	
3 <sup>rd</sup> Int. Conf. on Distortion Engineering – IDE 2011	Bremen - Germany	14-16 Sept	
Technical visits (RTRI and JSNDI)	Tokyo - Japan	06-09 Sept	
3 <sup>rd</sup> Int. Symp. Bulk Nanostructured Materials – BNM 2011	Ufa - Russia	23-26 Aug	
Technical visits (BAM, DGZfP, DB, IZfP, Milano Polimi-Mech Eng. Dept.)	Berlin, Saarbrckn, Milano	04-10 July	
Int. Symp. on NDT of Materials and Structures	İstanbul	16-18 May	
15 <sup>th</sup> Int. Metallurgy & Materials Cong.	İstanbul	11-13 Nov	
18 <sup>th</sup> Int. Heat Treatment and Surface Engineering Cong.	Rio de Janeiro - Brazil	25-30 July	
7 <sup>th</sup> National Welding Technology Cong.	Ankara	13-14 Nov	<b>2009</b>
EUROMAT 2009	Glasgow, UK	07-10 Sept	
1 <sup>th</sup> Int. Welding Technologies Conf.	Ankara	11-13 June	
IIV Annual Meeting	Paris - France	12-15 Jan	
1 <sup>st</sup> Izmir Global Aerospace Conf.	Izmir	13-14 Nov	
17 <sup>th</sup> World Conference on Non-destructive Testing	Shanghai - China	25-28 Oct	<b>2008</b>
14 <sup>th</sup> Int. Metallurgy and Materials Cong.	Istanbul	16-18 Oct	
12 <sup>th</sup> Int. Conf. on Metal Forming	Krakow - Poland	21-24 Sept	
Training for Evaluators (Evaluation & Accreditation of Engineering Programs)	Istanbul	13-14 Sept	
Conf. on Quality of Engineering Education and Interaction with Research	Thessaloniki - Greece	29 Aug	
Welding Technology 6 <sup>th</sup> National Cong.	Ankara	09 – 11 Nov	<b>2007</b>
Int. Symp. on Bulk Nanostructured Materials - BNM2007	Ufa - Russia	14 -18 Aug	
6 <sup>th</sup> Int. Conf. on Barkhausen Noise and Micromagnetic Testing	Valenciennes - France	09 -10 July	
Int. Seminar on Integrity of Industrial Materials and Components	Islamabad - Pakistan	17 - 18 May	
Meeting "Teaching & Research in Engineering in Europe", ERASMUS	Leuven - Belgium	17 - 20 March	
Meeting "Teaching & Research in Engineering in Europe", ERASMUS	Brussels - Belgium	02 - 05 Nov	<b>2006</b>
13 <sup>th</sup> Int. Metallurgy and Materials Cong.	Istanbul	09 -11 Nov	
9 <sup>th</sup> European Conf. on Non-Destructive Testing	Berlin - Germany	25-29 Sept	
12 <sup>th</sup> Int. Metallurgy and Materials Cong.	Istanbul	28 Sept - 2 Oct	<b>2005</b>
1 <sup>st</sup> Int. Conf on Distortion Engineering	Bremen - Germany	14-16 Sept	
5 <sup>th</sup> Int. Conf on Barkhausen Noise and Micromagnetic Testing	Petten - Holland	02-03 June	
4 <sup>th</sup> Int. Powder Metallurgy Conf.	Sakarya	18-22 May	
1 <sup>st</sup> Int. Metallurgy and Materials Cong.	Amman - Jordan	03-05 May	
Meeting "Teaching and Research in Engineering in Europe", ERASMUS	Roma - Italy	11-14 Feb	
16 <sup>th</sup> World Conf. on Nondestructive Testing	Montreal - Canada	30 Aug-3 Sept	
10 <sup>th</sup> Denizli Materials Symp.	Denizli	14-16 April	<b>2004</b>
2 <sup>nd</sup> Int. NDT Symp. and Exhibition	Istanbul	09-11 Oct.	<b>2003</b>
2 <sup>nd</sup> Int. Conf. on Thermal Process Modelling & Computer Simulation	Nancy - France	31 Mar-02 Apr	
8 <sup>th</sup> European Non-destructive Testing Conf.	Barcelona - Spain	17-21 June	<b>2002</b>
11 <sup>th</sup> Int. Metallurgy and Materials Cong.	Istanbul	05-05 June	<b>2001</b>
DGZfP- Annual Congress 2001 (Non-Destructive Testing)	Berlin - Germany	21-23 May	
15 <sup>th</sup> World Conf. on Nondestructive Testing	Roma - Italy	15-21 Oct.	<b>2000</b>
12 <sup>th</sup> Int. Conference on Strength of Materials (ICSMA) - 12	Asilomar - USA	27.08–1.09	
10 <sup>th</sup> International Metallurgy and Materials Cong.	Istanbul	24-28 May	
Welding Technology 2 <sup>nd</sup> National Cong.	Ankara	12-13 Nov.	<b>1999</b>
1 <sup>st</sup> Int. NDT Symposium and Exhibition	Ankara	29 Sept.-1 Oct.	
NATO-ASI: Multiscale Phenomena in Plasticity	Ouranopolis - Greece	08-19 Sept.	
GIFA-METEC'99	Düsseldorf - Germany	09-15 June	
DGZfP- Annual Congress 1999 (Non-Destructive Testing)	Celle - Germany	10-12 May	
3 <sup>rd</sup> Int. Conference on Certification and Standardisation in NDT	Meriden - England	26-27 April	
11 <sup>th</sup> Cong. of Int. Fed. for Heat Treatment & Surface Eng.	Florence - Italy	19-21 Oct.	
7 <sup>th</sup> European Conference on Non-Destructive Testing	Kopenhag - Denmark	26-29 June	<b>1998</b>
Meeting, Int. Organising Com. of Balkan Conf. on Metallurgy	Sinaia - Romania	04-05 Dec.	<b>1997</b>
European-American Workshop: "Determination of Reliability & Validation Methods of Non-destructive Evaluation "	Berlin - Germany	18-20 June	
9 <sup>th</sup> International Metallurgy and Materials Congress	Istanbul	11-14 June	
DGZfP- Annual Congress 1997 (Non-Destructive Testing)	Dresden - Germany	05-07 May	
EUROMAT'97 (5th European Conf Adv Mater, Processes, Applications)	Maastricht - Holland	21-23 April	
Seminar: Tech. Requirements for Q. Management & Accreditation of Test Labs - Workshop on Uncertainty of Tests and Analyses	Berlin -Germany	05-06 Feb.	

Meeting, Int. Organising Committee of Balkan Conf. on Metallurgy	Plovdiv - Bulgaria	04-06 Dec.	<b>1996</b>
Junior EUROMAT'96	Lausanne - Switzerland	26-30 Aug.	
3 <sup>rd</sup> EUROLAB Symposium "Testing and Analysis for Industrial Competitiveness and Sustainable Development"	Berlin - Germany	05-07 June	
International Welding Technology Symposium	Istanbul	15-17 May	
DGZfP-Annual Congress 1996 (Non-Destructive Testing)	Lindau - Germany	13-15 May	
EUROMAT'95	Padua/ Venice - Italy	25-28 Sept.	<b>1995</b>
Seminar on NDT of Weld Seams with New Euro-Standards	Berlin - Germany	12 Sept.	
8 <sup>th</sup> International Metallurgy and Materials Congress	Istanbul	06-09 June	
1 <sup>st</sup> Aluminium Symposium	Seydişehir	25-26 Nov.	<b>1994</b>
DGZfP- Annual Congress 1994 (Non-Destructive Testing)	Timmendorf -Germany	09-11 May	
7th International Metallurgy and Materials Congress	Ankara	04-08 May	<b>1993</b>
DGZfP- Annual Congress 1991 (Non-Destructive Testing)	Luzern - Switzerland	May	<b>1991</b>
Joint Meeting of German-French-Dutch Residual Stress Groups	Enschede - Holland	19-21 March	
6 <sup>th</sup> National Mechanic Congress	Kirazlıyayla	11-15 Sept.	<b>1990</b>
5 <sup>th</sup> National Metallurgy Congress	Ankara	21-25 Nov.	<b>1988</b>
AGARD-NATO, 65 <sup>th</sup> Meeting of Structures and Materials Panel	Çeşme	04-09 Oct.	<b>1987</b>