

## C. Hakan GÜR

|                    |  |
|--------------------|--|
| Birth date / place | 1965 Zonguldak   |
| Language           | English, German  |
| Address            | Middle East Technical Univ. - Metallurgical and Materials Eng. Dept., 06800 Ankara |
| Phone, Fax, E-mail | (+90 312) 2102511, 2102518, chgur@metu.edu.tr                                      |

### 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<br>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

|  |
|--|
| <b>2010 Fellowship Award by Int. Federation of Heat Treatment and Surface Engineering (IFHTSE), UK</b> |
|--|

### 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.)<br>Metallography Lab. (1 year), Mechanical Testing Lab. (2 years), X-Ray Diffraction Lab. (3 years) |

|  |
|--|
| <b>Editor of Handbook of Thermal Process Modeling of Steels</b> , 2009 CRC-Press, ISBN 978-0-8493-5019-1 |
|--|

|   |
|---|
| <b>Chapter in a Book:</b> 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 – Ankara 1989: Finite Element Simulation of Rigid Plastic Deformation on Microcomputers           |
| Ph.D. METU - Ankara 1995: 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.

## SEMINAR CERTIFICATES

|   |   |
|---|---|
| TÜRKAK-Ankara 04.06.2014                              | EN ISO/IEC 17024-2012 (Personnel Certification Training)  |
| TÜRKAK-Ankara 23-25.02.2011                           | EN ISO/IEC 17025 (Assessor Training – Module B, C)  |
| TÜBITAK-TUSSIDE 4-8.07.2006                           | Project Management  |
| TÜRKAK-Ankara 09-10.03.2002                           | EN ISO/IEC 17025 (Accreditation of Testing Laboratories)  |
| 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. Hizli H, Gür CH, Applicability of the Magnetic Barkhausen Noise Method for Nondestructive Measurement of Residual Stresses in the Carburized and Tempered 19CrNi5H Steels, <b>Research in ND Evaluation</b> , <i>accepted</i> <a href="https://doi.org/10.1080/09349847.2017.1359711">https://doi.org/10.1080/09349847.2017.1359711</a>      |
| 2. Güreş G, Gür CH, Failure Analysis of Fretting Fatigue Initiation and Growth on Railway Axle Press-Fits, <b>Engineering Failure Analysis</b> , 84 (2018) 151-166 <a href="https://doi.org/10.1016/j.engfailanal.2017.06.054">https://doi.org/10.1016/j.engfailanal.2017.06.054</a>  |
| 3. 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, <b>J Nondestructive Evaluation</b> , 36 (2017) 42 <a href="https://doi.org/10.1007/s10921-017-0423-7">https://doi.org/10.1007/s10921-017-0423-7</a> |
| 4. Kotan G, Kalay YE, Gür CH, Long-Term Thermal Stability of Equal Channel Angular Pressed 2024 Aluminum Alloy, <b>Mater Sci Eng A</b> , 677 (2016) 307-315   |
| 5. 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, <b>Materials Evaluation</b> , 74 (2016) 418-423  |
| 6. Garipova N, Batıgün C, Gür CH, Numerical and Experimental Determination of the Residual Stress State in Multi-pass Welded API 5LX70 Plates, <b>Materials Testing</b> , 56 (2014) 831-836   |
| 7. 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, <b>Int J Advanced Manufacturing Technology</b> , 71 (2014) 1493-1499   |
| 8. 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, <b>Soldag. Insp.</b> , 18 (2013) 207-216  |
| 9. Kotan G, Tan E, Kalay YE, Gür CH, Homogenization of ECAPed Al 2024 Alloy through Age Hardening, <b>Mater Sci Eng A</b> , 559 (2013) 601-606  |
| 10. 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, <b>Metallurgical &amp; Materials Trans. A</b> , 43A (2012) 5106-5114  |
| 11. Gür CH, Simsir C, Simulation of Quenching – A Review, <b>Materials Performance and Characterization</b> , Vol. 1, No. 1, Paper ID MPC104479 (2012) 1-37   |
| 12. Maradit P, Şimşir C, Lübben T, Gür CH, Metallurgical Influence on Quench Distortion of SAE 52100 Long Cylinders, <b>Int Heat Treatment and Surface Engineering</b> , 5 (2011) 57-60   |
| 13. Oral İ, Guzel H, Ahmetli G, Gür CH, Determining the Elastic Properties of Modified Polystyrenes by Sound Velocity Measurements, <b>Journal of Applied Polymer Science</b> , 121 (2011) 3425–3432  |
| 14. Tan E, Kibar AA, Gür CH, Mechanical and Microstructural Characterization of 6061 Aluminum Alloy Strips Severely Deformed by Dissimilar Channel Angular Pressing, <b>Materials Characterization</b> , 62 (2011) 391-397  |
| 15. 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  |
| 16. 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  |
| 17. 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  |

|   |
|---|
| 18. 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  |
| 19. 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                                      |
| 20. Bayramoğlu 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 |
| 21. 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                                 |
| 22. 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                      |
| 23. Şimşir C, Gür CH, A Review on Modeling and Simulation of Quenching, <b>J ASTM Int.</b> , 6 (2009) 1-29 (ID JAI101766)   |
| 24. 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                 |
| 25. 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  |
| 26. 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                     |
| 27. 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       |
| 28. 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                                       |
| 29. 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  |
| 30. 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  |
| 31. 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     |
| 32. 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   |
| 33. 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                                      |
| 34. 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  |
| 35. 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                |
| 36. 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               |
| 37. 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  |
| 38. 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                                     |
| 39. 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 |
| 40. Gür CH, Tuncer BO, Characterization of microstructural phases of steels by sound velocity measurement, <b>Materials Characterization</b> , 55 (2005) 160-166  |
| 41. 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                           |
| 42. 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   |
| 43. 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                                       |
| 44. 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                           |
| 45. 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   |
| 46. 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   |
| 47. 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                                |
| 48. 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  |
| 49. 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  |
| 50. 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                        |

|  |
|--|
| 51. 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      |
| 52. 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                                  |
| 53. Gür CH, Quality management system in NDT laboratories: Accreditation as a testing laboratory, <b>INSIGHT- J British Inst NDT</b> , 40 (1998) 621-623   |
| 54. 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                    |
| 55. Gür CH, Tekkaya AE, Finite element simulation of quench hardening, <b>Steel Research</b> , 67 (1996) 298-306   |
| 56. 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, 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.  |
| 2. 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> , Portoroz-Slovenia, Proc., 155-161   |
| 3. 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                                    |
| 4. Tan G, Kalay YE, Gür CH, The Effects of ECAP on the Precipitation Behaviour of Al 2024, <b>TMS 2017 San Diego</b>   |
| 5. Cagirici 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                                    |
| 6. 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   |
| 7. 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   |
| 8. 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.   |
| 9. 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  |
| 10. 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                                  |
| 11. 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                                     |
| 12. 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                                       |
| 13. 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 |
| 14. 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  |
| 15. 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,  |
| 16. 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  |
| 17. 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  |
| 18. 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   |
| 19. 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                                    |
| 20. Gür CH, Çam İ, Erian G, Batıgün C, Non-Destructive Monitoring of Variations of Residual Stresses in Steel Weldment by Magnetic Barkhausen Noise, <b>ASME Pressure Vessels &amp; Piping Conf.</b> 14-18 July 2013 Paris, CD-Proc., PVP2013-97495  |
| 21. Gür CH, Çam İ, Investigating the Effects of Quenching and Tempering on Steel Microstructures by Magnetic Barkhausen Noise Method, <b>6<sup>th</sup> Int Quenching and Control of Distortion Conf.</b> 9-12 Sept 2012 Chicago, Proceedings. 258-265   |
| 22. 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, <b>16<sup>th</sup> Int. Metallurgical &amp; Materials Cong.</b> Sept 2012-Istanbul, CD-Proc. 903-911                                 |
| 23. Akçaoğlu FÜ, Gür CH, Prediction of Texture Formation in Cold Rolled Steels by Magnetic Barkhausen Noise Method, <b>16<sup>th</sup> Int. Metallurgical &amp; Materials Congress</b> Sept 2012-Istanbul, CD-Proc. 1179-1185  |
| 24. Kotan G., Tan E, Kalay E, Gür CH, Investigation of the Precipitation Mechanisms in Severely Deformed and Aged 2024 Aluminum Alloy, <b>16<sup>th</sup> Int. Metallurgical &amp; Materials Cong.</b> Sept 2012-Istanbul, CD-Proc. 1203-1210  |

|  |
|--|
| 25. 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, <b>2<sup>nd</sup> Int Welding Tech. Conf. May 2012 Ankara</b> , Proceedings. 184-189  |
| 26. Gür CH, Savaş S, Measuring the Surface Residual Stresses in Shot-Peened Steel Components by Magnetic Barkhausen Noise Method, <b>18<sup>th</sup> World Cong. for NDT April 2012 Durban-S.Africa</b> , Paper no: 478  |
| 27. Tan E, Gür CH, Simon A, Gacsi Z, Investigating the Microstructure of Hot-Pressed SiC Reinforced AlCu and AlSi Alloy Composites by Ultrasonic Technique, <b>6<sup>th</sup> Int. Powder Metallurgy Cong. 5-7 Oct 2011 Ankara</b>   |
| 28. Gür CH, Nondestructive Monitoring of Surface Residual Stresses in Steels by Magnetic Barkhausen Noise Technique: Welded Plates and Shot-peened Components, <b>3<sup>rd</sup> Int. Conf. on Distortion Eng. 14-16 Sept 2011 Bremen</b> , Proceedings. 361-368                                   |
| 29. Kotan G, Tan E, Kalay YE, Gür CH, Effect of Post-ECAP Aging on the Thermal Stability and Subgrain Structure of 2024 Al-alloy, <b>BNM 2011 - 3<sup>rd</sup> Int Symp Bulk Nano-Structured Materials 23-26 Aug 2011 Ufa-Russia</b>   |
| 30. Kotan G, Tan E, Kalay YE, Gür CH, Investigation of Deformation Mechanisms in 2024 Al-alloy during ECAP, <b>BNM 2011 - 3<sup>rd</sup> Int Symp Bulk Nano-Structured Materials 23-26 Aug 2011 Ufa-Russia</b>   |
| 31. Gür CH, Characterization of Steel Microstructures by Magnetic Barkhausen Noise technique, <b>Int. Symp. on NDT of Materials &amp; Structures 15-18 May 2011 Istanbul</b> , CD Proc. 499-504  |
| 32. Maradit P, Şimşir C, Lübben T, Gür CH, Metallurgical Influence on Quench Distortion of SAE 52100 Long Cylinders, <b>18<sup>th</sup> IFHTSE Cong. July 2010 Rio de Janeiro</b> , CD Proc. 5522-5530   |
| 33. Yelbay I., Cam I., Gür H. Prediction of Surface Residual Stresses in Butt-Welded Steel Plates by Magnetic Barkhausen Noise Analysis, <b>10<sup>th</sup> European Conference on NDT 06-11 June 2010 Moscow-Russia</b> , Paper No: 1.01.03   |
| 34. Kara Z, Çam İ, Gür CH, Abramova M, Alexandrov I, Characterization of Equal Channel Angular Pressed AISI 1020 Steels by Magnetic Barkhausen Noise Analysis, <b>15<sup>th</sup> Int Metallurgy &amp; Materials Cong. 11-13 Nov 2010 Istanbul</b> , CD Proc. 551-560                              |
| 35. Simon A, Tan E, Gür CH, Pieczonka T, Gacsi Z, Investigating the Correlation between the Porosity, Wear Resistance and the Production Method of Al-SiCp Composites, <b>15<sup>th</sup> Int. Metallurgy &amp; Materials Cong. 11-13 Nov 2010 Istanbul</b> , CD-Proc. 283-289                     |
| 36. Maksimus A, Gacsi Z, Pieczonka T, Gür CH, Tan E, Microstructural Characterization of SiC Reinforced Aluminum Matrix Composites, <b>EURO PM2009 12-14 Oct 2009 Copenhagen</b> , Proceedings Vol. 3, 335-340   |
| 37. Bayramoğlu S, Gür CH, Alexandrov I, Abramova M, Characterization of Ultra-Fine Grained Steel Samples Produced by High Pressure Torsion via Magnetic Barkhausen Noise Analysis, <b>BNM 2009 Int. Symp. on Bulk Nano Materials 22-26 Sept 2009 Ufa-Russia</b>                                    |
| 38. Tan E, Gür CH, Influence of DCAP Process on the Mechanical Properties of 6061 Al-Alloy Sheet, <b>BNM 2009 Int Symp Bulk Nano Materials 22-26 Sept 2009 Ufa-Russia</b>  |
| 39. Maradit BP, Şimşir C, Lübben T, Gür CH, Influence of Quenching Conditions, Diameter and Material Inhomogeneity on Distortion of Steel Shafts, <b>EUROMAT 2009 07-10 Sept 2009 Glasgow</b> , Poster C-12  |
| 40. Davut K, Gür CH, Monitoring the Microstructural Evolution in Spheroidised Steel by Magnetic Barkhausen Noise Measurement, <b>7<sup>th</sup> Int Conf on Barkhausen Noise &amp; Micromagnetic Testing 15-16 July 2009 Aachen</b> , Proc. 143-150  |
| 41. Gür CH, Davut K, Non-destructive Characterization of Pearlite Spheroidization by Magnetic Barkhausen Noise Method, <b>17<sup>th</sup> World Conf. NDT 25-28 Oct 2008 Shanghai</b> , CD-Proc.   |
| 42. Gür CH, Özer M, Erdoğan M, The Evaluation of Structure-Property Relationships in the Dual Matrix Ductile Iron by Magnetic Barkhausen Noise Analysis, <b>17<sup>th</sup> World Conf. NDT 25-28 Oct 2008 Shanghai</b> , CD-Proc.   |
| 43. Gür CH, Kılıçlı V, Erdoğan M, Investigating the Austempering Parameters of Ductile Iron by Magnetic Barkhausen Noise Technique, <b>17<sup>th</sup> World Conf. NDT 25-28 Oct 2008 Shanghai</b> , CD-Proc.  |
| 44. Bayramoğlu S, Savaş S, Yelbay İ, Gür CH, Non-destructive Evaluation of Railroad Rails, <b>2<sup>nd</sup> Int. Railway Symposium 15-17 Oct 2008 Istanbul</b> , CD-Proc. 951-960   |
| 45. Şimşir C, Gür CH, 3D FEM Simulation of Steel Quenching, <b>14<sup>th</sup> Int. Metallurgy &amp; Materials Cong. 16-18 Oct 2008 Istanbul</b> , CD-Proc. 1306-1315  |
| 46. Bayramoğlu S, Gür CH, Valiev R Z, Alexandrov I V, Characterization of Ultra-Fine Grained Steel Samples Produced by High Pressure Torsion via Magnetic Barkhausen Noise Analysis, <b>14<sup>th</sup> Int. Metallurgy &amp; Materials Cong. 16-18 Oct 2008 Istanbul</b> , CD-Proc. 195-200       |
| 47. Maksimus A, Gür CH, Pieczonka T, Tan E, Gacsi Z, Comparison of the Microstructure and the Mechanical Properties of Hot and Cold Pressed Al-SiCp Composites, <b>5<sup>th</sup> Int. Powder Metallurgy Conf. 8-12 Oct 2008 Ankara</b> , CD-Proc.   |
| 48. Şimşir C, Gür CH, A New Framework for Simulation of Heat Treatments, <b>2<sup>nd</sup> Int. Conf. Distortion Engineering 17-19 Sept 2008 Bremen</b> , Proceedings. 471-479   |
| 49. Saraloğlu E, Tan E, Gür CH, Effect of ECAP and Post-Aging Processes on 2024 Aluminium Alloy, <b>Metal Forming 2008 12<sup>th</sup> Int Conf. 21-24 Sept 2008 Krakow</b>  |
| 50. Karpuz P, Şimşir C, Gür CH, Kim SK, Finite Element Investigation of the Effect of Hardening Behaviour of Alloys on Equal Channel Angular Pressing Performance, <b>4<sup>th</sup> Int Conf on Nanomaterials by Severe Plastic Deformation 18-22 August 2008 Goslar</b> , Proceedings. 1021-1026 |
| 51. Karpuz P, Şimşir C, Gür CH, Investigation of Hardening Behaviour and Die Geometry on the Deformation Performance of Equal Channel Angular Pressing by Finite Element Analysis, <b>BNM2007 Int. Symp. Bulk Nanostructured Materials 14-18 Aug 2007 Ufa-Russia</b>                               |
| 52. Kaplan M, Gür CH, Erdoğan M, Characterisation of Dual Phase Steels by Magnetic Barkhausen Noise Method, <b>6<sup>th</sup> Int Conf. on Barkhausen Noise &amp; Micromagnetic Testing 9-10 July 2007 Valenciennes</b> , Proceedings. 77-84   |
| 53. Davut K, Gür CH, Investigating Efficiency of Magnetic Barkhausen Noise Method for Determining Average Grain Size of Steels, <b>6<sup>th</sup> Int. Conf. Barkhausen Noise &amp; Micromagnetic Testing, 9-10 July 2007 Valenciennes</b> , Proceedings. 113-122                                  |

|   |
|---|
| 54. Davut K, Bayramoğlu S, Gürer G, Gür CH, Nondestructive Characterization of Spheroidised AISI 1060 Steel by Magnetic Barkhausen Noise Measurements, <b>6<sup>th</sup> Int Conf on Barkhausen Noise &amp; Micromagnetic Testing</b> 9-10 July 2007 Valenciennes, Proceedings. 123-129   |
| 55. Maksimus A, Gacsi Z, Gür CH, Investigation of the Porosity and Hardness of Al-SiCp Composites, <b>Int. Scientific Conf. microCAD</b> 22-23 March 2007 Miskolc-Hungary, Proceedings. 51-56   |
| 56. Karpuz P, Şimşir C, Gür CH, Simulation of Equal Channel Angular Pressing Applied to Produce Structures with Nano-size Grains, <b>13<sup>th</sup> Int. Metallurgy-Materials Cong.</b> 9-12 Nov 2006 Istanbul, CD-Proc. 1454-1463   |
| 57. Kretz F, Gür CH, Gacsi Z, Characterization of the Microstructures of SiC Particle Reinforced Aluminum Matrix Composites by a New Image Processing Algorithm, <b>13<sup>th</sup> Int. Metallurgy-Materials Cong.</b> 9-12 Nov 2006 Istanbul, CD-Proc. 889-895  |
| 58. C.H.Gür, İ.Çam, Comparison of Magnetic Barkhausen Noise and Sound Velocity Measurements for Characterisation of Steel Microstructures, <b>9<sup>th</sup> ECNDT</b> 25-29 Sept 2006 Berlin, CD-Proc. Mo.2.2.4  |
| 59. K.Davut, C.H.Gür, X.Kleber, Characterisation of Quenched and Tempered Steels by Magnetic Barkhausen Noise Method, <b>9<sup>th</sup> ECNDT</b> 25-29 Sept 2006 Berlin, CD-Proc. P108   |
| 60. C.Simsir, C.H.Gür, FE Simulation of Quenching in order to Determine Microstructure and Residual Stresses, <b>FEMS EUROMAT</b> 5-8 Sept 2005 Prag, CD-Proc. 114-122  |
| 61. Şimşir C, Gür CH, FE simulation of steel quenching to investigate residual stresses and distortion, <b>1<sup>st</sup> Int. Conf. on Distortion Engineering</b> 14-16 Sept 2005 Bremen, Proceedings. 407-414   |
| 62. Sönmez Ç, Tekkaya AE, Gür CH, Comparison of Deep Drawability of Aluminum and Steel using Numerical Simulation Experiments, <b>6<sup>th</sup> Int. Conf. &amp; Workshop on Numerical Simulation of 3D Sheet Forming Processes</b> 15-19 Aug 2005 Detroit, Ed. L.M. Smith et al., American Inst of Physics, Proceedings. 778 A, 119-124 |
| 63. Reger, M, Vero B, Csepeli Zs, Gür CH, The role of Inter-critical Jominy Test in the Development of DP & Trip steels, <b>1<sup>st</sup> Int Conf. on Heat Treatment and Surface Engineering of Tools and Dies</b> 08-11 June 2005 Croatia, Proceedings. 411-416  |
| 64. Gür CH, Çam İ, Non-destructive Characterisation of Quenched/Tempered AISI/SAE 1040 Steel by Magnetic Barkhausen Noise and Sound Velocity Measurements, <b>5<sup>th</sup> Int. Conf. on Barkhausen Noise and Micromagnetic Testing</b> 2-3 June 2005 Petten, Proceedings. 29-36  |
| 65. Gür CH, Tuncer BO, Determination of the Effect of Quenching and Tempering on AISI/SAE 5140 Steel by Sound Velocity Measurements, <b>1<sup>st</sup> Jordanian Int. Conf. of Mater. Sci. &amp; Eng.</b> 3-5 May 2005 Al-Salt, Proceedings. 230-235  |
| 66. Réti T, Felde I, Gür CH, Modeling of Reversible $\gamma / \alpha$ Transformations of Low Carbon Steels in the Inter-critical Temperature Range, <b>Proc of 14<sup>th</sup> IFHTSE Congress</b> Oct 2004 Shanghai, Vol.25, No.5, 702-705   |
| 67. Gür CH, Tuncer BO, Investigating the Microstructure-Ultrasonic Property Relationships in Steels, <b>16<sup>th</sup> World Conf. on NDT</b> 30 Aug-03 Sept 2004 Montreal, CD-Proc. Paper No. TS2.6.2,  |
| 68. Gür CH, Yıldız İ, Determining the Impact Toughness of Age-Hardened 2024 Al-Alloy by Nondestructive Measurements, <b>16<sup>th</sup> World Conf on NDT</b> 30 Aug-03 Sept 2004 Montreal, CD-Proc. Paper No. TS4.13.4,  |
| 69. Gür CH, Prediction of Reinforcement State and Mechanical Properties of SiC Particle Reinforced Al-Matrix Composites by Transverse & Longitudinal Waves, <b>8<sup>th</sup> European Conf. on NDT</b> 17-21 June 2002 Barcelona, CD-Proc.   |
| 70. Gür CH, Ultrasonic investigation of SiC-particle reinforced aluminium matrix composites, <b>DGZfP-Annual Congress</b> 05-07 May 2002 Weimar, Proceedings.   |
| 71. Gür CH, Aydınmakina B, Ultrasonic Investigation of Graphite Nodularity in Ductile Cast Irons, <b>DGZfP Annual Congress</b> 21-23 May 2001 Berlin, CD-Proc.  |
| 72. Gür CH, Ataş E, Determination of the Properties of SiC Reinforced Al Metal-Matrix Composites by Ultrasonic Techniques, <b>15<sup>th</sup> World Conf. on NDT</b> 15-21 Oct. 2000 Roma, CD-Proc.   |
| 73. Gür CH, Aydınmakina B, Non-destructive Characterisation of Nodular Cast Irons by Ultrasonic Method, <b>15<sup>th</sup> World Conf. on NDT</b> 15-21 Oct. 2000 Roma, CD-Proc.  |
| 74. Gür CH, Accreditation of a Non-destructive Testing Laboratory, <b>3<sup>rd</sup> Int. Conf. on Certification and Standardization in NDT</b> 28-29 April 1999 Meriden  |
| 75. Gür CH, Schuler, W., Tekkaya, A.E., Investigation of Quench Behaviour of Eccentrically Drilled Steel Cylinders, <b>11<sup>th</sup> Int. Cong. of Heat Treatment &amp; Surface Eng.</b> , 19-21 Oct. 1998 Florence, Proceedings. Vol. III, 281-290   |
| 76. Gür CH, Doyum, A.B., Qualitätsarbeiten in zerstörungsfreien Prüflaboratorien und Akkreditierung nach EN 45001, <b>DGZfP-Annual Congress</b> 05-07 May 1997 Dresden, Proceedings.  |
| 77. Gür CH, Tekkaya, A.E., Öztürk, T., Schuler, W., Investigation of Internal Stresses and Microstructural Evolution in Quenched Steel Components by Finite Element Analysis, <b>5<sup>th</sup> European Conf. on Adv. Materials &amp; Processes &amp; Applications</b> 21-23 April 1997 Maastricht, Proceedings. Vol.1, 637-641          |
| 78. Gür CH, Öztürk T, Bor Ş, Schuler W, Finite Element Analysis to Investigate Influence of Process Parameters on Quenched Components, <b>FEMS Abstracts Junior Euromat 96</b> , August 26-30 1996 Lausanne, 58-59  |
| 79. Mahmutyazıcıoğlu N, Gür CH, Heutiger Stand der ZfP in der Türkei, <b>DGZfP- Annual Congress</b> 13-15 May 1996 Lindau, Proceedings. Vol.52.1, 159-166   |
| 80. C.H. Gur, A.E. Tekkaya, T. Ozturk, Numerical and experimental investigation of quench process, <b>2<sup>nd</sup> Int. Conf. on Quenching and Control of Distortion</b> 4-7 Nov 1996 Cleveland, Proceedings. 305-314.  |
| 81. Gür CH, Schuler W, X-ray Determination of Quench Induced Residual Stresses in C60 Steel, <b>EUROMAT</b> Sept 1995 Padua   |
| 82. Gür CH, Schuler W, Determination of Residual Stress States in Quench Hardened Steels by X-Ray Diffraction, <b>7<sup>th</sup> Int. Metallurgy-Materials Cong.</b> 1993, Proceedings. Vol. II, 1089-1099  |

## CONFERENCE PAPERS (in Turkish)

|   |
|---|
| 1. Kaleli T, Yelbay Hİ, Gür CH, Kaynak İşlemi Nedeniyle Oluşan Kalıntı Gerilmelerin Mikro-Manyetik Teknikle Tahribatsız Olarak Ölçülmesi, <b>Proc. of 10<sup>th</sup> National Welding Technology Cong.</b> 17-18 Nov 2017, Ankara, ...   |
| 2. Batıgün C, Gür CH, Alın Kaynaklı Yapısal Çeliklerdeki Kalıntı Dağılımının Konstrüksiyon Güvenliğine Etkisi, <b>Proc. of 10<sup>th</sup> National Welding Technology Cong.</b> 17-18 Nov 2017, Ankara, ...  |
| 3. Hızlı H, Kaleli T, Gür CH, Sementasyon İşlemi Uygulanan Çeliklerdeki Kalıntı Gerilmelerin Tahribatsız Tekniklerle Ölçülmesi, <b>5<sup>th</sup> Heat Treatment Symp.</b> , 2-3.06.2016, İTÜ İstanbul, Bildiriler Kitabı, 59-66  |
| 4. Bedir E, Batıgün C, Gür CH, S235 Çeliğinin MAG Köşe Kaynağında Farklı Sabitleme Noktalarına Bağlı Gelişen Çarpılma Eğilimlerinin Sonlu Elemanlar Yöntemi ile Tahmin Edilmesi, <b>Proc. of 9<sup>th</sup> National Welding Technology Cong.</b> 20-21 Nov 2015, Ankara, 191-207     |
| 5. Yelbay Hİ, Gür CH, Demiryolu raylarında Kalıntı Gerilmelerin Manyetik Barkhausen Gürültüsü Yöntemi ile Ölçülmesi, <b>Proc. of 9<sup>th</sup> National Welding Technology Cong.</b> 20-21 Nov 2015, Ankara, 301-307   |
| 6. Gür CH, Su Verilen ve Temperlenen Çeliklerde İyapının Tahribatsız Yöntemlerle Karakterizasyonu: Ultrasonik ve Mikro-Manyetik Yöntemler, <b>Proc. of 4<sup>th</sup> Heat Treatment Symp.</b> , 24-25 Oct 2013, İstanbul, 99-109   |
| 7. Tolungüç B, Yurtışık K, Tirkeş S, Gürbüz R, Gür CH, Batıgün C, Ertürk T, 2205 Dupleks Paslanmaz Çeliklerin Hibrit Plazma Ark Kaynaklı Birleştirmelerinde Mikroyapı Dönüşümleri, <b>Proc. of 8<sup>th</sup> National Welding Technology Cong.</b> , 18-19 Nov 2011, Ankara, 185-192 |
| 8. Tan E, Kibar AA, Gür CH, 6061 Al-Alaşımı Plakaların Değişik Kanallı Açısal Presleme Yöntemiyle Aşırı Plastik Deformasyonu, <b>CD Proc 15<sup>th</sup> Int Metallurgy &amp; Materials Cong.</b> 11-13 Nov 2010, İstanbul, 1062-1070   |
| 9. Maradit BP, Şimşir C, Lübben T, Gür CH, Gazla Hızlı Soğutulan Çeliklerdeki Şekil Bozulmasının Boyut Analizi ile İncelenmesi, <b>CD Proc 15<sup>th</sup> Int Metallurgy &amp; Materials Cong.</b> 11-13 Nov 2010, İstanbul, 1727-1736   |
| 10. Savaş S, Gür CH, Bilyeli Dövme Uygulanmış Çelik Parçalarda Yüzey Kalıntı Gerilmelerinin Mikro-Manyetik Yöntemle Tahribatsız Olarak Ölçülmesi, <b>CD Proc. 15<sup>th</sup> Int Metallurgy &amp; Materials Cong.</b> 11-13 Nov 2010, İstanbul, 500-508                              |
| 11. Maradit BP, Şimşir C, Lübben T, Gür CH, Sertleştirilen Çelik Parçalardaki Şekil Bozulmalarının Boyut Analizi ile Öngörülmesi, <b>Proc. of 3<sup>rd</sup> Heat Treatment Symp.</b> 14-15 Nov 2009, İstanbul, 246-253   |
| 12. Filiz Z, Batıgün C, Tansal M, Gür CH, Kaynak Tekniği ve Tahribatsız Muayene Personeli Eğitimi ve Belgelendirilmesi, <b>Proc. 7<sup>th</sup> National Welding Technology Cong.</b> 13-14 Nov 2009, Ankara, 23-30   |
| 13. Kibar AA, Uzunçakmak GE, Tan E, Gür CH, 6061 Al Alaşımı İnce Plakaların Mukavemetinin Aşırı Plastik Deformasyonla İyileştirilmesi, <b>Proc. of 4<sup>th</sup> Aluminum Symp.</b> 15-16 Oct 2009, İstanbul, 265-269  |
| 14. Yelbay İ, Çam İ, Gür CH, Kaynaklı Plakalarda Kalıntı Gerilmelerin Manyetik Barkhausen Gürültüsü Yöntemiyle Ölçülmesi, <b>Proc. National Welding Technology Conf.</b> 11-13 June 2009 Ankara, 512-523  |
| 15. Kolankaya O, Yelbay İ, Doyum B, Gür CH, Kaynakların Tahribatsız Muayenesi, <b>Proc. 1<sup>st</sup> National Welding Technology Conf.</b> 11-13 June 2009 Ankara, 698-709  |
| 16. Filiz Z, Batıgün C, Tansal M, Gür CH, Kaynak Tekniği Alanında İhtiyaç Duyulan Vasıflı Elemanların Eğitimi ve Belgelendirilmesi, <b>Proc. 1<sup>st</sup> National Welding Technology Conf.</b> 11-13 June 2009 Ankara, 717-722   |
| 17. Savaş S, Gür CH, Bilyeli Dövme İşlemi Uygulanan Çelik Parçalarda Kalıntı Gerilme Durumunun Manyetik Barkhausen Gürültü Yöntemi ile Tayini, <b>CD Proc 14<sup>th</sup> Int Metallurgy &amp; Materials Cong.</b> 16-18 Oct 2008, İstanbul, 1498-1504                                |
| 18. Uzunçakmak E G, Tan E, Gür CH, DCAP İşleminin 6061 Al-Alaşımı Şeritlerin Mekanik Özelliklerine Etkisi, <b>CD Proc 14<sup>th</sup> Int Metallurgy &amp; Materials Cong.</b> 16-18 Oct 2008, İstanbul, 158-163  |
| 19. Saraloğlu E, Tan E, Gür CH, Eş Kanallı Açısal Presleme ve Yaşlandırma İşlemlerinin 2024 Al-Alaşımının Mekanik Özelliklerine Etkisi, <b>CD Proc 14<sup>th</sup> Int Metallurgy &amp; Materials Cong.</b> 16-18 Oct 2008, İstanbul, 15-20   |
| 20. Yelbay İ, Gür CH, Demiryolu raylarında Kalıntı Gerilmelerin Ölçümü, <b>CD Proc. 2<sup>nd</sup> Int Railway Symp.</b> 15-17 Oct 2008 İstanbul, 961-968   |
| 21. Davut K, Gür CH, Manyetik Barkhausen Gürültüsü Yöntemi ile Çeliklerde İyapı Karakterizasyonu, <b>Proc. of 3<sup>rd</sup> Int NDT Symp.</b> 17-19 April 2008 İstanbul, 224-237.  |
| 22. Batıgün C, Filiz Z, Tansal M, Gür CH, Kaynak Tekniği Alanında Çalışacak Uzman Personelin Uluslararası Mevzuata Uygun Biçimde Eğitimi ve Belgelendirilmesi, <b>Proc. 6<sup>th</sup> National Welding Techn. Cong.</b> 9-10 Nov 2007 Ankara, 179-183                                |
| 23. Şimşir C, Gür CH, Bilgisayar simülasyonu yardımıyla su verme işlemleri sonucunda çelik iş parçalarında oluşan mikroyapının ve kalıntı gerilmelerin tayini, <b>13<sup>th</sup> Int Metallurgy-Materials Cong. CD Proc.</b> 9-12 Nov 2006 İstanbul, 646-659                         |
| 24. Davut K, Gür CH, Çam İ, Su verilmiş SAE 1040 çeliğinde menevişleme sıcaklığının iyapıya etkisinin manyetik Barkhausen gürültüsü yöntemi ile tayini, <b>CD Proc. 13<sup>th</sup> Int Metallurgy-Materials Cong.</b> 9-12 Nov 2006 İstanbul, 419-426                                |
| 25. Küçükylmaz A, Gür, CH, Çam İ, AISI 52100 rulman çeliğinden imal edilmiş makaralarda manyetik Barkhausen gürültüsü tekniği ile kalıntı gerilmelerinin tayini, <b>13<sup>th</sup> Int Metallurgy-Materials Cong. CD Proc.</b> 9-12 Nov 2006 İstanbul, 697-705                       |
| 26. Boyacıoğlu B, Gür CH, Ae1-Ae3 kritik sıcaklık aralığından su verilen ötektoidaltı çeliklerde manyetik Barkhausen gürültüsü yöntemi ile iyapı karakterizasyonu, <b>13<sup>th</sup> Int Metallurgy-Materials Cong. CD Proc.</b> 9-12 Nov 2006 İstanbul, 711-717                     |
| 27. Kaplan M, Gür CH, Erdoğan M, Çift fazlı çeliklerde manyetik Barkhausen gürültüsü yöntemi ile tahribatsız iyapı karakterizasyonu, <b>CD Proc of 13<sup>th</sup> Int Metallurgy-Materials Cong.</b> 9-12 Nov 2006 İstanbul, 1388-1394   |
| 28. Dereli A, Gür CH, Öztürk A, Mika cam seramiğinin elastik özelliklerinin ultrasonik ölçümlerle belirlenmesi, <b>CD Proc of 13<sup>th</sup> Int Metallurgy-Materials Cong.</b> 9-12 Nov 2006 İstanbul, 382-389  |
| 29. Davut K, Gür CH, Manyetik Barkhausen Gürültüsü Yöntemi ile Çeliklerde Tane Boyutunun Tayini, <b>Proc. of 11<sup>th</sup> Denizli Materials Symposium</b> , 19-21 April 2006, 893-898  |
| 30. Şimşir C, Gür CH, Kalıntı Gerilmeler ve Şekil Bozulmasının Tahmini için Çeliklere Su Verme İşleminin Sonlu Eleman Yöntemi ile Simülasyonu, <b>CD Proc of 12<sup>th</sup> Int Metallurgy-Materials Cong.</b> , 28 Sept-2 Oct 2005 İstanbul, 1753-1762                              |

|  |
|--|
| 31. Réti T, Felde I, Kolankaya O, Gür CH, Ötektoidal çeliklerde $A_{e1}$ - $A_{e3}$ sıcaklık aralığında östenit/ferrit faz dönüşümü için kinetik model, <b>CD Proc of 12<sup>th</sup> Int Metallurgy-Materials Cong.</b> , 28 Sept-2 Oct 2005 İstanbul, 1777-1783        |
| 32. Davut K, Gür CH, Çam İ, Su Verilmiş ve Menevişlenmiş SAE 4140 Çeliğinde Manyetik Barkhausen Gürültüsü Yöntemi ile Tahribatsız İç Yapı Karakterizasyonu, <b>CD Proc. 12<sup>th</sup> Int Metallurgy-Materials Cong.</b> 28 Sept-2 Oct 2005 İstanbul, 896-902          |
| 33. Gür CH, Ultrasonik Boyuna Dalga Hız Ölçümleri ile SiC Katkılı Al Metal Matrisli Kompozitlerde Mikroyapı Tayini, <b>CD Proc of 4<sup>th</sup> Int Powder Metallurgy Conf.</b> , 18-22 May 2005 Sakarya, 439-446   |
| 34. Yıldız İ, Gür CH, Yaşlandırma İşleminin 2024 Al-alaşımının Darbe Tokluğuna Etkisinin Tahribatsız Metotlarla İncelenmesi, <b>Proc of 10<sup>th</sup> Denizli Materials Symposium</b> , 14-16 Apr. 2004 Pamukkale Univ.-Denizli, 455-461                               |
| 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, Sivama 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 Matris 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 Standardları, <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 Standardları, <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 Mikrobilgisayarlar 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-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. Tolunguç 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 Çökeltme 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

|  |
|--|
| Member, Editorial Board: <b>Int. J of Microstructure &amp; Materials Properties (IJMMP) 2005-...</b>                                 |
| Member, European Advisory Panel: <b>INSIGHT (J of British Inst. of NDT, European Issue) 1995-....</b>                                |
| Member, Editorial Board: <b>Materials Performance and Characterization (MPC) - ASTM online journal, 2013-2016</b>                    |
| Member, Advisory Board: <b>Gazi University Journal of Science, 2006-...</b>  |
| Editor, <b>Proceedings of 3<sup>rd</sup> Int NDT Symposium (17-19 April 2008 İstanbul)</b>   |
| Proceedings e-book of <b>11<sup>th</sup> Int. Metallurgy &amp; Materials Cong.</b> (5-8 June 2002, İstanbul), Editorial Board Member |



|   |
|---|
| Proceedings of 10 <sup>th</sup> Int. Metallurgy and Materials Cong. (24-28 May 2000, Istanbul), 3 volumes, Editorial Board Member |
| Proceedings of 9 <sup>th</sup> Int. Metallurgy and Materials Cong. (11-15 June 1997, Istanbul), 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, 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, Istanbul  |
| 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, Istanbul  |
| Chairman, Organizing Comm, 15 <sup>th</sup> Int Metallurgy & Materials Congress, 11-13 Nov 2010, Istanbul  |
| 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 Istanbul  |
| Chairman, Organizing Committee of 3 <sup>rd</sup> Int NDT Symposium, 17-19 April 2008 Istanbul   |
| 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 Istanbul   |
| 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 Istanbul  |
| 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 Istanbul   |
| Coordinator, 10 <sup>th</sup> International Metallurgy and Materials Congress, May 2000 Istanbul   |
| 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 Istanbul   |
| 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, Atılım 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 (35 MSc, 5 PhD)

|            |   |
|------------|---|
| 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 Testing 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 Ultrasound 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 Yazganarıkın</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 Chanel 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 Küçükylmaz</i>  |
| June 2009  | Determination of Residual Stress State in Steel Weldments, <i>H. İlker 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 Dereği</i> (Supervisor: Assoc.Prof.Dr. A. Öztürk) |

### ATTENDED ACTIVITIES

|   |                           |                |             |
|---|---------------------------|----------------|-------------|
| 10 <sup>th</sup> National Welding Technology Cong.                              | Ankara                    | 17-18 Nov      | <b>2017</b> |
| 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 | <b>2016</b> |
| 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      | <b>2015</b> |
| 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    | <b>2014</b> |
| 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.                            | Istanbul                  | 11-13 Sept     | <b>2013</b> |
| 14 <sup>th</sup> Asia Pacific Conf. on NDT                                      | Mumbai – India            | 18-22 Nov      |             |
| 4 <sup>th</sup> Heat Treatment Symp.  | Istanbul                  | 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     |             |
| 18 <sup>th</sup> World Congress for NDT (WCNDT)                                 | Durban - South Africa     | 16-20 April    | <b>2012</b> |
| 8 <sup>th</sup> National Welding Technology Cong.                               | Ankara                    | 18-19 Nov      |             |
| 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     | <b>2011</b> |
| 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 ( <i>BAM, DGZfP, DB, IZfP, Milano Polimi-Mech Eng. Dept.</i> ) | 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      | <b>2010</b> |
| 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      |             |
| EUROMAT 2009  | Glasgow, UK               | 07-10 Sept     | <b>2009</b> |
| 1 <sup>th</sup> Int. Welding Technologies Conf.                                 | Ankara                    | 11-13 June     |             |
| IIW Annual Meeting  | Paris - France            | 12-15 Jan      |             |
| 1 <sup>st</sup> Izmir Global Aerospace Conf.                                    | Izmir                     | 13-14 Nov      | <b>2008</b> |
| 17 <sup>th</sup> World Conference on Non-destructive Testing                    | Shanghai - China          | 25-28 Oct      |             |

|  |                        |                 |             |
|--|------------------------|-----------------|-------------|
| 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 ( <i>Evaluation &amp; Accreditation of Engineering Programs</i> )                                  | 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     |             |
| 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     | <b>2007</b> |
| 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     |             |
| 13 <sup>th</sup> Int. Metallurgy and Materials Cong.   | Istanbul               | 09 -11 Nov      | <b>2006</b> |
| 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 |             |
| 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      | <b>2005</b> |
| 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   | <b>2004</b> |
| 10 <sup>th</sup> Denizli Materials Symp.   | Denizli                | 14-16 April     |             |
| 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      |             |
| DGZfP- Annual Congress 2001 (Non-Destructive Testing)  | Berlin - Germany       | 21-23 May       | <b>2001</b> |
| 15 <sup>th</sup> World Conf. on Nondestructive Testing   | Roma - Italy           | 15-21 Oct.      |             |
| 12 <sup>th</sup> Int. Conference on Strength of Materials (ICSMA) - 12   | Asilomar - USA         | 27.08–1.09      | <b>2000</b> |
| 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.      |             |
| 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.     | <b>1999</b> |
| 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.      | <b>1998</b> |
| 7 <sup>th</sup> European Conference on Non-Destructive Testing   | Kopenhag - Denmark     | 26-29 June      |             |
| Meeting, Int. Organising Com. of Balkan Conf. on Metallurgy  | Sinaia - Romania       | 04-05 Dec.      |             |
| 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      | <b>1997</b> |
| 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.      |             |
| 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      | <b>1996</b> |
| 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.     |             |
| Seminar on NDT of Weld Seams with New Euro-Standards   | Berlin - Germany       | 12 Sept.        | <b>1995</b> |
| 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             |             |
| Joint Meeting of German-French-Dutch Residual Stress Groups  | Enschede - Holland     | 19-21 March     | <b>1991</b> |
| 6 <sup>th</sup> National Mechanic Congress   | Kirazliyayla           | 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> |