

**PUBLICATIONS LIST OF TÜBİTAK ULUSAL METROLOJİ ENSTİTÜSÜ (UME)  
IN THE FIELD OF ACOUSTICS, ULTRASOUND AND VIBRATION**

**(Updated August 2, 2019)**

1. C. Kirbaş, M.Yu. Seyidov, **Influence of Native Structural Defects Activated by Illumination and under the Memory Effect Conditions on Ultrasonic Wave Propagation in TlInS<sub>2</sub> Ferroelectric-Semiconductor with Incommensurate Phase**, Material Research Express, 6:8 (2019): 085914
2. E. Sadıkoğlu, E. Bilgic, **Characterization Measurements of New Family of Ear Simulators at TÜBİTAK UME**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
3. G. Durando, B. Karaböce, G.T. Haar, A. Denkova, P. Miloro, J.D. Pooter, B. Caccia, R. Dijkema, V. Wilkens, G.V. Rhoo, A. Spinelli, RaCHy - **Radiotherapy Coupled with Hyperthermia - 18HLT06 EURAMET EMPIR Project**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
4. B. Karaböce, H.O. Durmuş, E. Çetin, M. Özdingiş, F.M. de Espinosa, F. Chinchurreta, A. Alvarez, **Bilateral Intercomparison of Ultrasound Power Standards Used for Calibrations in Medical Field**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
5. M. Özdingiş, B. Karaböce, H.O. Durmuş, E. Çetin, **Automatic Measurement Software Algorithm for Embedded System Used in Portable Ultrasonic Power Meter**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
6. E. Çetin, B. Karaböce, H.O. Durmuş, H. Gürbüz, S. Altınay, **Determination of Thermal Lesions Formed by HIFU Using Polyacrylamide Based Phantom Containing Egg White**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
7. E. Çetin, H.O. Durmuş, B. Karaböce, N. Kavaklı, **Acoustical Characterization of Tissue - Mimicking Materials**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
8. B. Karaböce, M. Özdingiş, M., H.O. Durmuş, E. Çetin, **Load Cell Based Ultrasonic Wattmeter for Ultrasonic Probe Calibration**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
9. H.O. Durmuş, B. Karaböce, E. Çetin, M. Özdingiş, E. Toprak, S.S. Topşar, Ş. Balcı, **Investigation of the Effect of Tungsten Used in Backing Materials of Ultrasound Probes on Acoustical Parameters**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey
10. H.O. Durmuş, E. Çetin, B. Karaböce, **An Evaluation of Performance Tests of In-Ear Hearing Aids**, The 14th edition of IEEE International Symposium on Medical Measurements and Applications (MeMeA), 26-28 June 2019, İstanbul, Turkey

11. B.Karaböce, H.O.Durmuş, E. Çetin, **Establishment of Measurement System for Hearing Aids at TÜBİTAK UME**, International Conference on Medical and Biological Engineering (CMBEBIH 2019), 16 – 18 May 2019, Banja Luka, Bosnia and Herzegovina
12. J. Avison, P. Harris, S. Robinson, D. Rodrigues, C. Guglielmone, C. Hof, E. Sadıkoğlu, M. Chushkov, S. Zelenika, P. Rosenkrantz, H. Andersson, T. Fedtke, C. Koch, N. Medina Martin, S. Ruiz, H. Shawky, **Final Report: Key Comparison EURAMET.AUV.A-K5**, Metrologia, 56:1A, Technical Supplement (2019): 09001
13. E.Çetin, H.O.Durmuş, B.Karaböce, **Inspection of an Ultrasonography Device by Using Ultrasound Phantom: An Example of Operator Proficiency Test**, National Congress of Medical Technologies (TIPTEKNO'18), 8 – 10 November 2018, Gazi Magosa (in Turkish)
14. B.Karaböce, E.Çetin, H.O.Durmuş, H.Öztürk, K.Mahmat, M.A.Güler, H.Korkmaz, **Variation of Temperature Responses Resulting from HIFU Application According to Acoustic Parameters**, National Congress of Medical Technologies (TIPTEKNO'18), 8 – 10 November 2018, Gazi Magosa (in Turkish)
15. B.Karaböce, H.O.Durmuş, E.Çetin, M.Özdingiş, **Investigation of Hardness of Backing Material Used in Piezoelectric Transducers**, National Congress of Medical Technologies (TIPTEKNO'18), 8 – 10 November 2018, Gazi Magosa (in Turkish)
16. M.Özdingiş, B.Karaböce, K.Bostan, H.Korkmaz, **Increasing Power Transmission Efficiency of Ultrasonic Transducers Used in Physiotherapy**, National Congress of Medical Technologies (TIPTEKNO'18), 8 – 10 November 2018, Gazi Magosa (in Turkish)
17. E.Bilgiç, E.Sadıkoğlu, C.Kırbaş, İ.Coşkun, **Establishment, Verification and Application of THD+Noise Measurement System for Sound Calibrator and Field Vibration Calibrator**, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2018), 12 – 16 October 2018, Antalya, Turkey
18. E.Sadıkoğlu, E.Bilgiç, **Metrological Traceability and Reliability of Audiological Measurements**, 9th National Audiology and Speech Disorders Congress, 11-13 October 2018, İstanbul, Turkey (in Turkish)
19. E.Sadıkoğlu, E.Bilgiç, C.Kırbaş, İ.Coşkun, **New Initiative for Reliability of Hearing Assessment: Development of an Universal Ear Simulator**, 9th National Audiology and Speech Disorders Congress, 11-13 October 2018, İstanbul, Turkey (in Turkish)
20. B.Karaböce, **Establishment of Ultrasonic Power Measurements Standard at TÜBİTAK UME and Bilateral Comparison Results**, International Journal of Acoustics and Ultrasonics, Volume 1:1 - 2 (2018): pp.13-18
21. E.Çetin, B.Karaböce, O.Kılınç, O.Orun, **Biological Effects of HIFU on HT-29 Colon Cancer Cell Lines**, 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA), 11 – 13 June 2018, Rome, Italy
22. M.Özdingiş, B.Karaböce, Y.E.Erdemli, **Production of Probes to Characterize Acoustic Field Effects Due to the Geometry of Piezoelectric Transducers: Rectangular and Rhomboid Transducers**, 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA), 11 – 13 June 2018, Rome, Italy

23. B.Karaböce, E.Çetin, H.O.Durmuş, M.Özdingiş, H.Öztürk, K.Mahmat, M.A.Güler, **Investigation of Different TMMs in High Intensity Focused Ultrasound Applications**, 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA), 11 – 13 June 2018, Rome, Italy
24. E.Bilgiç, H.Mutaf, C.Kırbaş, E.Sadıkoğlu, **Evaluation of Uncertainty Contributions of Measurement Surface and Number of Microphone Positions in Determination of Sound Power Levels**, Acta Physica Polonica A, 132:3 (2017) : 642-649
25. E.Bilgiç, **Determination of Pulse Width and Pulse Amplitude Characteristics of Materials Used in Pendulum Type Shock Calibration Device**, Acta Physica Polonica A, 132:3 (2017) : 857-860
26. B.Karaböce, E.Çetin, H.O.Durmuş, M.Özdingiş, **Investigation of Viscous Heating Effect of Thermocouples under HIFU Applications**, National Congress of Medical Technologies (TIPTEKNO'17), 12 – 14 October 2017, Trabzon, Turkey (in Turkish)
27. B.Karaböce, E.Çetin, M.Özdingiş, H.O.Durmuş, **Image Measurement Verification Studies of Different Objects in Tissue-Mimicking Phantom**, National Congress of Medical Technologies (TIPTEKNO'17), 12 – 14 October 2017, Trabzon, Turkey (in Turkish)
28. E.Sadıkoğlu, E.Bilgiç, C.Kırbaş, İ. Coşkun, **Example of Cooperation in the European Union for Strengthening the Metrology Basis for Hearing Assessment**, 12<sup>th</sup> National Acoustics Congress, 14-15 September 2017, İzmir, Turkey (in Turkish)
29. E.Bilgiç, E.Sadıkoğlu, C.Kırbaş, İ. Coşkun, S. Beşiroğlu, **Sensor and Signal Conditioner Calibrations for Acoustics and Vibration Field Applications**, 12<sup>th</sup> National Acoustics Congress, 14-15 September 2017, İzmir, Turkey (in Turkish)
30. C.Kırbaş, E.Bilgiç, E.Sadıkoğlu, **Characterization of Reference Sound Sources**, 12<sup>th</sup> National Acoustics Congress, 14-15 September 2017, İzmir, Turkey (in Turkish)
31. K.Saher, S.Nas, B.Karaböce, C.Kırbaş, E.Sadıkoğlu, **Comparison of Measured and Simulation Values of Reverberation Time in Reverberation Room**, 12<sup>th</sup> National Acoustics Congress, 14-15 September 2017, İzmir, Turkey (in Turkish)
32. B.Karaböce, H.O.Durmuş, E.Çetin, M.Özdingiş, **Power Calibration of Therapeutic Ultrasonic Transducers**, 12<sup>th</sup> National Acoustics Congress, 14-15 September 2017, İzmir, Turkey (in Turkish)
33. B.Karaböce, M.Özdingiş, H.O.Durmuş, E.Çetin, **Portable Ultrasonic Power Meter System**, 12<sup>th</sup> National Acoustics Congress, 14-15 September 2017, İzmir, Turkey (in Turkish)
34. B.Karaböce, E.Çetin, H.O.Durmuş, **Thermal Effects of High Intensity Focused Ultrasound, National Biophysics Congress**, 6-9 September 2017, İstanbul, Turkey
35. E.Bilgiç, F.A.Alsubaey, İ.Aladhyani, E.Sadıkoğlu, C.Kırbaş, **Current Situation in Vibration Field at NMCC and Calibration of Signal Conditioner**, IMEKO 23rd TC3, 13th TC5 and 4th TC22 International Conference, 30 May – 1 June 2017, Helsinki, Finland
36. B.Karaböce, E.Sadıkoğlu, E.Bilgiç, **Characterization and Clinical Trials of the Prototype Ear Simulator Designed for Neonates Hearing Assessment**, Acoustics Australia, 3:7 (2017), pp.1-8

37. B.Karaböce, E.Çetin, H.O.Durmuş, M.Özdingiş, H.Korkmaz, J.Altun, S.Argun, **Experimental Investigations of Viscous Heating Effect of Thermocouples under Focused Ultrasound Applications**, IEEE International Symposium on Medical Measurements and Applications (MeMeA), 7-10 May 2017, Minnesota, USA
38. B.Karaböce, H.O.Durmuş, E.Çetin, M.Özdingiş, **Calibration of Therapeutic Ultrasonic Transducers with the Modified Radiation Force Balance System**, IEEE International Symposium on Medical Measurements and Applications (MeMeA), 7-10 May 2017, Minnesota, USA
39. E.Bilgiç, **Determination of Pulse Width and Pulse Amplitude Characteristics of Aterials Used in Pendulum Type Shock Calibration Device**, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), 19 – 24 October 2016, Antalya, Turkey
40. E.Bilgiç, H.Mutaf, C.Kırbaş, E.Sadıkoğlu, **Evaluation of Uncertainty Contributions of Measurement Surface and Number of Microphone Positions in Determination of Sound Power Levels**, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), 19 – 24 October 2016, Antalya, Turkey
41. R.Barham, E.S.Olsen, D.Rodrigues, S.Barrera-Figueroa, E.Sadıkoğlu, B.Karaböce, **The Calibration of a Prototype Occluded Ear Simulator Designed for Neonatal Hearing Assessment Applications**, Journal of Acoustical Society of America, 140:2 (2016), pp. 806813
42. M.Y.Seyitsoy, R.A.Suleymanov, A.P.Odrinsky, C.Kırbaş, **Effect of Deep Native Defects on Ultrasound Propagation in TlInS<sub>2</sub> Layered Crystal**, Physica B Condensed Matter, 497(2016), pp. 86-92
43. B.Karaböce, **Investigation of Thermal Effect by Focused Ultrasound in Cancer Treatment**, IEEE Instrumentation & Measurement Magazine, 19:5 (2016) : pp. 20-25
44. B.Karaböce, M.Özdingiş, H.O.Durmuş, E.Çetin, **Portable Ultrasonic Wattmeter For Ultrasonic Probe Calibration**, National Congress of Medical Technologies (TIPTEKNO'16), 27-29 October 2016, Antalya, Turkey (In Turkish)
45. B.Karaböce, E.Çetin, H.O.Durmuş, M.Özdingiş, **Investigation of the Temperature Effect of Ultrasound Used in Cancer Therapy**, National Congress of Medical Technologies (TIPTEKNO'16), 27-29 October 2016, Antalya, Turkey (In Turkish)
46. S.Brezas, P.Cellard, H.Andersson, C.Guglielmone, C.Kırbaş, **Dissemination of the Unit Watt in Airborne Sound: Aerodynamic Reference Sound Sources as Transfer Standards**, The 45th International Congress and Exposition on Noise Control Engineering (InterNoise 2016), 21-24 August 2016, Hamburg, Germany
47. C.Kırbaş, H.Andersson, C.Guglielmone, V.Wittstock, E.Bilgiç, **Primary Sound Power Sources for the Realisation of the Unit Watt in Airborne Sound**, The 45th International Congress and Exposition on Noise Control Engineering (Inter-Noise 2016), 21-24 August 2016, Hamburg, Germany
48. C.Guglielmone, V.Wittstock, C.Kırbaş, H.Andersson, **Main Achievements of the EMRP Sound Power Project and Future Prospects**, The 45th International Congress and Exposition on Noise Control Engineering (Inter-Noise 2016), 21-24 August 2016, Hamburg, Germany

49. K.Saher, S.Nas, B.Karaböce, C.Kırbaş, E.Bilgiç, **Room Acoustic Modelling of a Reverberation Chamber**, The 45th International Congress and Exposition on Noise Control Engineering (Inter-Noise 2016), 21-24 August 2016, Hamburg, Germany
50. K.Saher, B.Karaböce, **Auralizations of Monosyllabic Word Lists For Hearing Impaired Students - A Preliminary Study**, The 9th Iberian Congress and the 47th Spanish Congress on Acoustics (EuroRegio2016), 13-15 June 2016, Porto, Portugal
51. B.Karaböce, E.Çetin, H.O.Durmuş, **Investigation of Temperature Rise in Tissue Mimicking Material Induced by a HIFU Transducer**, 2016 IEEE International Symposium on Medical Measurements and Applications (MeMeA), 15-18 May 2016, Benevento, Italy
52. B.Karaböce, D.Kaleci, A.Şahin, **Experiential Investigation of Nonlinear Acoustic Field Structure in Two and Three Dimensions**, 2016 IEEE International Symposium on Medical Measurements and Applications (MeMeA), 15-18 May 2016, Benevento, Italy
53. B.Karaböce, K.Kılıç, G.Erdoğan, **Investigation of Ultrasonic Fields Produced by HIFU Transducers Used in Cancer Therapy**, 2016 IEEE International Symposium on Medical Measurements and Applications (MeMeA), 15-18 May 2016, Benevento, Italy
54. G.Durando, C.Guglielmone, J.Haller, O.Georg, A.Shaw, E.Martin, B.Karaböce, **Towards Comparison of Ultrasound Dose Measurements - Current Capabilities and Open Challenges**, Physics Procedia 70 (2015), pp.1114-1118
55. B.Karaböce, H.O.Durmuş, **Visual Investigation of Heating Effect in Liver and Lung Induced by a HIFU Transducer**, Physics Procedia 70 (2015), pp.1225-1228
56. B.Karaböce, A.Şahin, A.T.İnce, Y.Skarlatos, **Characterization of Pressure Fields of Focused Transducers at TÜBTAK UME**, Physics Procedia 70 (2015), pp.1241-1245
57. E.Bilgiç, E.Sadıkoğlu, C.Kırbaş, **The Measurement and Evaluation of Vibration: Exposure to Hand-arm and Whole-body Vibration**, The 11th National Acoustical Congress, İstanbul Technical University, 19-20 October 2015, İstanbul, Turkey (in Turkish)
58. B.Karaböce, E.Bilgiç, E.Sadıkoğlu, C.Kırbaş, H.O.Durmuş, **Characterization of New Design Ear Simulator to Be Used in Newborn Hearing Tests**, The 11th National Acoustical Congress, İstanbul Technical University, 19-20 October 2015, İstanbul, Turkey (in Turkish)
59. B.Karaböce, H.O.Durmuş, **System Established at TÜBTAK UME for Hearing Aids Test and Measurement Results**, The 11th National Acoustical Congress, İstanbul Technical University, 19-20 October 2015, İstanbul, Turkey (in Turkish)
60. C.Kırbaş, E.Bilgiç, E.Sadıkoğlu, **The Effect of Near Field on the Determination of Sound Power Level**, The 11th National Acoustical Congress, İstanbul Technical University, 19-20 October 2015, İstanbul, Turkey (in Turkish)
61. E.Bilgiç, C.Kırbaş, E.Sadıkoğlu, H.Mutaf, **Influence of Measurement Surface and Number of Microphones on Determination of Sound Power Level of Noise Sources**, The 11th National Acoustical Congress, İstanbul Technical University, 19-20 October 2015, İstanbul, Turkey (in Turkish)

62. 28. C.Kırbaş, E.Bilgiç, E.Sadıkoğlu, **Research on a Realization of the Unit “Watt” in Airborne Acouscis**, The 11th National Acoustical Congress, Istanbul Technical University, 19-20 October 2015, İstanbul, Turkey (in Turkish)
63. B.Karaböce, H.O.Durmuş, **Investigation of Thermal Effect In Vitro Liver and Lung Induced by a HIFU Transducer**, National Congress of Medical Technologies (TIPTEKNO'15), pp.519-522, 15-18 October 2015, Bodrum, Turkey (In Turkish)
64. E.Bilgiç, Y.Durgut, **Effect of Waveform Model on Sensitivity Values of Transducers Used in Dynamic Mechanical Measurements**, Acta Physica Polonica A, vol:128(2), pp.267-270, August 2015
65. E.Bilgiç, G.Gülmez, S.Özen, V.Senay, S.Pat, S.Korkmaz, R.Mohammadigharehbagh, **Investigation of the Thickness Effect to Impedance Analysis Results Algan Acoustic Sensor**, The 9th International Physics Conference of the Balkan Physical Union, 24-27 August 2015, İstanbul, Turkey
66. S.Pat, S.Özen, E.Bilgiç, G.Gülmez, V.Senay, S.Korkmaz, R.Mohammadigharehbagh, **Impedance Analysis of Nano Thickness Layered Algan Acoustic Sensor Deposited by Thermionic Vacuum Arc**, The 9th International Physics Conference of the Balkan Physical Union, 24-27 August 2015, İstanbul, Turkey
67. B.Karaböce, **Focused Ultrasound Temperature Effect in Tissue-mimicking Material and Sheep Liver**, IEEE International Symposium on Medical Measurements and Application (MEMEA), 7-9 May 2015, Torino, Italy
68. B.Karaböce, Y.Gülmez, E.Bilgiç, E.Sadıkoğlu, A.T.İnce, Y. Skarlatos, **Comparison of the Input Electrical Power Measurement Methods for HIFU Transducers**, IEEE Xplore, vol. 978-1-4799-2921, pp.1-6, April 2014
69. E.Sadıkoğlu, E.Bilgiç, C.Kırbaş, B. Karaböce, **National Interlaboratory Comparison on Calibration of Sound Calibrators**, The 10th National Acoustical Congress, pp.304-309, Yıldız Technical University, 16-17 December 2013, İstanbul, Turkey (in Turkish)
70. B.Karaböce, C.Kırbaş, F.Akdaş, E.Bilgiç, E.Sadıkoğlu, **Characterization of “Silent” Cabin Used for Audiometric Measurements**, pp.315-322, The 10th National Acoustical Congress, pp.315-322, Yıldız Technical University, 16-17 December 2013, İstanbul, Turkey (in Turkish)
71. E.Bilgiç, E.Turhan, **Calibration Methods for Charge Type Conditioning Amplifiers and Results of Calibrations Performed at TÜBİTAK UME**, The 10th National Acoustical Congress, pp.323-331, Yıldız Technical University, 16-17 December 2013, İstanbul, Turkey (in Turkish)
72. E.Bilgiç, E.Sadıkoğlu, C.Kırbaş, B.Karaböce, **National Interlaboratory Comparison on Calibration of Vibration Exciter**, The 10th National Acoustical Congress, pp.342-348, Yıldız Technical University, 16-17 December 2013, İstanbul, Turkey (in Turkish)
73. E.Bilgiç, E.Sadıkoğlu, C.Kırbaş, B.Karaböce, **Effect of Sound Level Meter’s Response out of Tolerances to Noise Measurement Results**, The 10th National Acoustical Congress, pp.388-395, Yıldız Technical University, 16-17 December 2013, İstanbul, Turkey (in Turkish)

74. C.Kırbaş, E.Bilgiç, E.Sadıkoğlu, B.Karaböce, **Interlaboratory Comparison on Sound Power Measurements**, The 10th National Acoustical Congress, Yıldız Technical University, pp.396-405, 16-17 December 2013, İstanbul, Turkey (in Turkish)
75. B.Karaböce, E.Bilgiç, E.Sadıkoğlu, **HIFU Technique for Cancer Therapy**, National Congress of Medical Technologies (TIPTEKNO'13), 31 October – 2 November 2013, Antalya, Turkey (in Turkish)
76. E.Bilgiç, M.Aksulu, **Relationship Between Rail Parameters and Noise in the Rail Transport Systems**, The 8th National Metrology Congress, pp.288-301, 26-28 September 2013, Gebze – Kocaeli, Turkey (In Turkish)
77. C.Kırbaş, E.Bilgiç, E.Sadıkoğlu, **Diffuse Field Comparison Calibration of Microphones**, The 8th National Metrology Congress, pp.276-287, 26-28 September 2013, Gebze – Kocaeli, Turkey (In Turkish)
78. E.Bilgiç, E.Sadıkoğlu, **Parameters Affecting Measurements of Noise Exposure**, The 8th National Metrology Congress, pp.302-309, 26-28 September 2013, Gebze – Kocaeli, Turkey (In Turkish)
79. J.Haller, K.-V.Jenderka, A.Shaw, G.Durando, B.Karaböce, **Metrology of High-intensity Therapeutic Ultrasound Within the EMRP Project “External Beam Cancer Therapy”. Characterization of Sources**, Metrologia 49 (2012), S267–S270
80. B.Karaböce, Y.Gülmez, S.Rajagapol, A.Shaw, **Instantaneous Input Electrical Power Measurements of HITU Transducer**, Advanced Metrology for Ultrasound in Medicine Conference (AMUM), 12-14 May 2012, Teddington, United Kingdom
81. A.Kuzu, Ü.Danış, E.Kurt, E.Karabulut, D.Şahinkaya, A.Kaplaner, S.Birecik, B.Özümü, E.Bilgiç, **Testing and Calibration of Sonobuoys in Air Medium**, The 20th IEEE Signal Processing and Communication Assembly, 18-20 April 2012, Muğla – Turkey (in Turkish)
82. A.Şahin, O.A.Kaya, D.Kaleci, B.Karaböce, E.Sadıkoğlu, E.Bilgiç, **Non-Linear Acoustic Pressure Field of High Intensity Focused Ultrasound (HIFU) Transducers in Two and Three Dimensions**, The 2nd International Advances in Applied Physics and Material Science Congress, 26-29 April 2012, Antalya, Turkey
83. A.Kuzu, Ü.Danış, E.Kurt, E.Karabulut, D.Şahinkaya, E.Bilgiç, A.Kaplaner, S.Birecik, **Calibration and Test of DIFAR Sonobuoys**, The 20th International Symposium on Industrial Electronics, 27-30 June 2011, Gdansk, Poland
84. B.Karaböce, Y.Gülmez, S.Rajagapol, A. Shaw, **Instantaneous Input Electrical Power Measurements of HITU Transducer**, Journal of Physics: Conference Series 279 (2011), 012011
85. B.Karaböce, E.Sadıkoğlu, E.Bilgiç, **Ultrasound Power Measurements of HITU Transducer with a More Stable Radiation Force Balance**, Journal of Physics: Conference Series 279 (2011) 012014
86. K.V.Jenderka, G.Durando, B.Karaböce, S.Rajagopal and A.Shaw, **Inter-laboratory Comparison of HITU Power Measurement Methods and Capabilities**, Journal of Physics: Conference Series 279 (2011) 012015
87. E.Sadıkoğlu, E.Bilgiç, C.Kırbaş, B.Karaböce, **Accreditation of Acoustical Calibration and Measurement Services**, The 9th National Acoustical Congress, p.64-69, Middle East Technical University, 26-27 May 2011, Ankara, Turkey (in Turkish)

88. B.Karaböce, E.Sadikoğlu, E. Bilgiç, **Metrological View on the Use of Ultrasound**, The 9th National Acoustical Congress, p.283-290, Middle East Technical University, 26-27 May 2011, Ankara, Turkey (in Turkish)
89. C.Kırbaş, E.Sadikoğlu, E.Bilgiç, **Determination of Elastic Constants in Solids Through the Measurement of Sound Velocity**, The 9th National Acoustical Congress, p.304315, Middle East Technical University, 26-27 May 2011, Ankara, Turkey (in Turkish)
90. E.Bilgiç, E.Sadikoğlu, C.Kırbaş, B.Karaböce, **Measurement Methods for Determination of Acoustical Performance of Acoustical Cabins**, The 9th National Acoustical Congress, p.326-332, Middle East Technical University, 26-27 May 2011, Ankara, Turkey (in Turkish)
91. B.Karaböce, E.Sadikoğlu, E.Bilgiç, **Characterization of HITU Transducers Used for External Beam Cancer Therapy**, The 3rd National Congress on Medical Devices Manufacturing, Samsun, Turkey, 6-7 November 2009, pp. 155-159 (in Turkish)
92. H.-M. Kramer, J.-M.Bordy, E. Van Dijk, J.Dobrovodsky, S.Duane, G.Durando, R.-P. Kapsch, B.Karaboce, Ch.Koch, A.Kosunen, M.Pimpinella, A.Shaw, **Metrology in External Beam Cancer Therapy**, The 14th International Congress of Metrology, 22-25 June 2009, Paris, France
93. E.Bilgiç, E.Sadikoğlu, B.Karaböce, C.Kırbaş, A.İ.Turan, **Primary Accelerometer Calibration in UME by Sine Approximation Method**, XIX IMEKO World Congress Fundamentals and Applied Metrology, 6-11 September 2009, Lisbon, Portugal
94. B.Karaböce, E.Sadikoğlu, E.Bilgiç, C.Kırbaş, A.İ.Turan, **HITU Transducers, Their Characterization and Application Areas**, The 8th National Acoustics Congress, 27-28 November 2008, Kemer – Antalya, Turkey (in Turkish)
95. E.Bilgiç, E.Sadikoğlu, B.Karaböce, C.Kırbaş, A.İ.Turan, **Calibration of Vibration Pick-ups by Sine Approximation Method**, The 8th National Acoustics Congress, 27-28 November 2008, Kemer – Antalya, Turkey (in Turkish)
96. C.Kırbaş, E.Sadikoğlu, E.Bilgiç, B.Karaböce, A.İ.Turan, **Measurement of Sound Absorption Coefficient by MLS Technique**, The 8th National Acoustics Congress, 27-28 November 2008, Kemer – Antalya, Turkey (in Turkish)
97. E.Bilgiç, C.Kırbaş, E.Sadikoğlu, B.Karaböce, A.İ.Turan, **Coherence Between Sound Power Measurements Performed in Full Anechoic and Reverberant Environments**, The 36th International Congress on Noise Control Engineering (Internoise 2007), 28-31 August 2007, İstanbul, Turkey
98. C.Kırbaş, E.Sadikoğlu, E.Bilgiç, B.Karaböce, A.İ.Turan, **The Influence of Various Parameters on Sound Absorption Coefficient Measurements in the Reverberation Room**, The 36th International Congress on Noise Control Engineering (Internoise 2007), 28-31 August 2007, İstanbul, Turkey
99. B.Karaböce, E.Sadikoğlu, E.Bilgiç, C.Kırbaş, A.İ.Turan, M.Arifoviç, **Comparison of Voltage Measurement Techniques in Radiation Conductance Calculations of Ultrasonic Power Transducer**, The 36th International Congress on Noise Control Engineering (Internoise 2007), 28-31 August 2007, İstanbul, Turkey



100. E.Sadıkoğlu, E.Bilgiç, B.Karaböce, C.Kırbaş, A.İ.Turan, **Overview of Methods for Calibration of Vibration Pick-ups**, The 36th International Congress on Noise Control Engineering (Internoise 2007), 28-31 August 2007, İstanbul, Turkey
101. E.Sadıkoğlu, E.Bilgiç, B.Karaböce, C.Kırbaş, **The Current Status of Acoustical Metrology in Turkey**, Journal of Metrology Society of India, vol.22, No.2, 2007, pp.129-132
102. B.Karaböce, E.Sadıkoğlu, E.Bilgiç, C.Kırbaş, A.İ.Turan, A. Çolak, **Characterization of Piezoceramics Based Underwater Electroacoustical Transducers**, III International Workshop on Piezoelectric Materials and Applications in Actuators, 18-21 June 2006, Eskişehir, Turkey, p.67
103. E.Bilgiç, E.Sadıkoğlu, B.Karaböce, C.Kırbaş, A.İ.Turan, A.Çolak, **Low Frequency Calibration of Hydrophones by Self-mixing Interferometry at UME**, The 7th International Conference on Vibration Measurements by Laser Techniques, 19-22 June 2006, Ancona, Italy
104. C.Kırbaş,, E.Sadıkoğlu, E.Bilgiç, B.Karaböce, A.İ.Turan, Ş.Erkoç, **A Simplified Theoretical Approach to Condenser Microphone Behaviour**, The 6th European Conference on Noise Control (Euronoise 2006), 30 May - 1 June 2006, Tampere, Finland
105. B.Karaböce, E.Sadıkoğlu, E.Bilgiç, **Realization of National Ultrasonic Power Standard**, The 2005 International Congress and Exposition on Noise Control Engineering (Internoise 2005), Rio de Janeiro, Brazil, 07-10 August 2005, session UL2: Ultrasound
106. E.Sadıkoğlu, C.Kırbaş, E.Bilgiç, B.Karaböce, A.İ.Turan, **Realization and Characterization of Omnidirectional Sound Sources**, The 2005 International Congress and Exposition on Noise Control Engineering (Internoise 2005), Rio de Janeiro, Brazil, 07-10 August 2005, session MT1: Metrology
107. E.Sadıkoğlu, E.Bilgiç, B.Karaböce, **Laser Pistonphone Based On Self-Mixing Interferometry**, Applied Acoustics, vol. 65 (9), 2004, pp. 833 - 840
108. E.Sadıkoğlu, E.Bilgiç, B.Karaböce, **Characterization of Commercial Type Vibration Exciters by Self-Mixing Interferometry**, The 6th International Conference on Vibration Measurements by Laser Techniques, Ancona, Italy, SPIE Vol. 5503, pp.598 – 601, 2004
109. E.Sadıkoğlu, B.Karaböce, E.Bilgiç, C.Kırbaş, A.İzzet Turan, **Bilateral Comparison of Ultrasonic Power Standards Between UME and PTB**, Technical Report, 2003-ASL-001, 2003
110. E.Bilgiç, E.Sadıkoğlu, B.Karaböce, **Laser Pistonphone as an Alternative Tool for Microphone Absolute Calibration at Low Frequencies**, The 5th International Conference on Vibration Measurements by Laser Techniques, June 2002, Ancona, Italy, SPIE Vol. 4827, pp. 74 - 79
111. E.Sadıkoğlu, E.Bilgiç, B.Karaböce, **Realization and Dissemination of Linear Acceleration Unit at UME**, The 5th International Conference on Vibration Measurements by Laser Techniques, June 2002, Ancona, Italy, SPIE Vol. 4827, pp. 288 –292

112. E.Bilgiç, B.Karaböce, S.Fank, E.Sadikoğlu, **Influence of Mechanical Vibration on Strain Gauge Based Force Transducer Performance**, IMEKO TC3-Coneference, Istanbul, Turkey, 2001, pp. 112-116
113. E.Sadikhov, E.Bilgiç, B.Karaböce, C.Kırbaş, **Investigation of Condenser Microphone Diaphragm Vibration**, Inter-noise 99 Conference, Fort-Lauderdale, USA, 1999, pp.1485 – 1490
114. R.Gamidov, E.Sadikhov, M.Çetintaş, **Optical Feedback in Diode Laser for Sound Pressure Measurement**, The 3rd International Conference on Vibration Measurements by Laser Techniques, Ancona, Italy, SPIE Vol. 3411, pp.624-629, 1998
115. R.Gamidov, M.Çetintaş, E.Sadikov, V.Sautenkov, **Diode Lasers with External Optical Feedback for Small Displacement Measurements**, Proceedings of CPEM 96, Braunschweig, Germany, 17-20 June 1996, pp. 126-127