

Assoc. Prof. Dr. KONCA ŞAHER

University Lecturer, Architect, Acoustic Consultant
President of Turkish Acoustical Society

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PROFILE

- Has unique perspective on research, teaching and consultancy through knowledge and experiences gained from both academy and industry, notably in creation and maintenance of diverse knowledge networks.
- Has extensive research and consultancy experience in architectural acoustics, sustainable material sourcing in design, and design for mega events and demonstrated her contribution through high profile projects, publications, teaching experiences and collaborations.
- Consulted on a diverse range of projects including residential developments, large master planning schemes, health care facilities, schools, auditoria, airports, train and metro stations, retails, offices and performing art spaces. Worked as the Acoustic lead to London 2012 Olympic and Paralympic Games Temporary Venues and is a BREEAM International Assessor. Works collaboratively with architects, structural engineers, mechanical engineers and Local Authorities discussing and agreeing project objectives.

EDUCATION

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| 2013 | Delft University of Technology PhD in Building Technology | Delft, the Netherlands |
| | <ul style="list-style-type: none">• Dissertation: “Acoustical Design Guidelines for Living Rooms for Adults with Intellectual Disabilities”. Keywords: Acoustic measurements and modelling, auralizations, subjective assessment of acoustic quality, listening tests with hearing-impaired people, guidelines for architects. | |
| 2001 | Middle East Technical University Master of Science in Building Science | Ankara, Turkey |
| | <ul style="list-style-type: none">• Thesis: “Sightline Analysis of Proscenium Type Auditoria”. Keywords: Sightline design, ergonomics, sightline performance, application software development. | |
| 1998 | Middle East Technical University Bachelor of Architecture | Ankara, Turkey |

EXPERIENCE

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| 2014 - Present | Kadir Has University, Department of Interior Arch. & Environmental Design Assoc. Prof. Dr. & Acting Head of Department | İstanbul, Turkey |
| | Teaching Experience (in English): <ul style="list-style-type: none">• IA 351 - Interior Arch. Design Systems – Acoustics and Lighting.• IA 301 - Interior Design Project III – IA 401-402 Interior Design Project V-VI.• IA 251 - Building Systems I - Building Components.• IA 254 - Building Systems II – Materials.• FAD 344 - Designing User Experience in Interior Architecture. (Faculty elective) | |
| 2013 - Present | AKUSTIKA Acoustic Consultant – Founding Partner | İstanbul, Turkey |

2007 - 2013 **ATKINS** **London, United Kingdom**
Principal Acoustic Consultant

- Acoustic lead to London 2012 Olympic and Paralympic Games Temporary Venues.
- Contributing to sustainable sourcing code for London 2012 Olympic & Paralympic Games Temporary Venues.
- Project manager for public address system design & room acoustic modelling of Jeddah International Airport.
- Acoustic design review of Bond Street & Birmingham New Street Stations & CrossRail C100 Package.
- Environmental noise impact assessments of various large master planning schemes.
- Acoustic design review of high-rise residential buildings, hotels, offices in Middle East, India and Russia.
- BREEAM assessments (Acoustic credits) of educational buildings, health care facilities, office buildings and industrial developments.
- Sustainable design recommendations including healthy materials, responsible sourcing, hierarchy of materials for acoustic design.
- Project management, business development, staff management and multi discipline working.
- Working collaboratively with architects, structural engineers, mechanical engineers and Local Authorities.

2002 - 2007 **Delft University of Technology** **Delft, the Netherlands**
PhD Researcher

- Research on acoustical modelling, verification of acoustical virtual models, design for intellectually disabled, acoustic materials and acoustic design guidelines for architects.
- Utilising measurements and modelling techniques to investigate the impact of building design on acoustical quality in rooms for intellectually disabled and hearing impaired.

2005 - 2006 **Technical University of Denmark** **Copenhagen, Denmark**
Marie Curie Fellow in
"European Doctorate in Sound and Vibration Studies".

- Expert knowledge in acoustic modelling in ODEON – room acoustics software.
- Experimental research of binaural recordings, auralizations and listening tests for acoustic comfort assessment of auditoria, offices, classrooms and day care centres.

2002 - 2000 **Erciyes University** **Yozgat, Turkey**
Teaching Assistant

2020 - Present **Turkish Acoustical Society** **İstanbul, Turkey**
President of Executive Board

2020 - 2018 **Turkish Acoustical Society** **İstanbul, Turkey**
General Secretary

- The purpose of the Acoustical Society of Turkey, which is a non-profit organization, is to generate, disseminate, and promote the knowledge and practical applications of acoustics. Diverse fields of interest in acoustics include physics, engineering, architecture, noise, speech and hearing, psychology and music.
- Moreover, the society also aims to establish networking between people at different disciplines of acoustics and to discuss acoustics by organizing seminars, symposiums, congresses and other events and to support the further studies and announce the progress on standardization and regulations.

RESEARCH AREA & KEY SKILLS

- Room acoustics design, measurements, and simulations.
- Sound insulation and noise reduction calculations.
- Building services noise control.
- Room acoustics and Public Address and Voice Alarm system design. (PA/VA Design)
- Environmental noise assessments, construction noise and vibration.
- Reporting for planning and development in compliance with building regulations.
- Development of sustainable design codes, sustainable design guidelines, healthy materials, sustainable sourcing, BREEAM assessments for acoustics.
- Diffusion of knowledge from industry to academy and increase technological contribution of the university.
- Ability to provide outstanding vision to establish collaborative research initiatives with international institutions and industrial partners.
- Multi-discipline working, project management & directorship of large and small scale projects.

ACADEMIC HONORS, AWARDS AND FELLOWSHIPS

- 2005** Marie Curie Fellowship in "European Doctorate in Sound and Vibration Studies". (9 months)
Research fellowship at Technical University of Denmark, Acoustic Technology Department
- 2002** Dutch Government Scholarship for Doctoral education.
PhD scholarship at Delft University of Technology, Department of Architecture.

CERTIFICATION

- 2018** D1 - Building Acoustics Expert Training Certificate, Turkey.
Certified Building Acoustic Expert in line with "Regulation on Protection of Buildings against Noise" issued by Turkish Ministry of Environment and Urbanization, May 2017.
- 2012** BREEAM International Assessor Training Certificate - BRE Watford, UK.
BREEAM is one of the leading sustainability assessment method for master planning projects, infrastructure and buildings.

GRANTS AND PROJECTS

- 2021** **Istanbul Development Agency (IDA)** - Financial Support Program: "Designhub-Ist Design Education and Application Centre". (Consultant)
- 2021** **H2020 MSCA-RISE PROJECT: 101008186 CONSIDER** – "Sustainable Management of Industrial Heritage as a Resource for Urban Development". (Researcher)
- 2014** **The Scientific and Technological Research Council of Turkey (TUBITAK)** – Directorate of Science Fellowships and Grant Programmes (BIDEB) - 2232 Grant. Project No: 114C105. "Improvement of Classroom Acoustics for the Hearing Impaired". (15.08.2014-11.06.2016). Project manager.
- 2013** **European Union Project** (Europe Aid /131352/D/SER/TR) : "Technical Assistance Project For Implementation Capacity For The Environmental Noise Directive, Turkey" by Ministry of Environment and Urbanism.)

Project Budget: EUR 6, 090, 000.00

Non key Local Expert for the Development of Strategic Noise Maps and Action Plans for Adana, Erzurum, Eskişehir in Turkey. (06.2013-12.2015)

PUBLICATIONS

Papers in Refereed Journals

- 2025** Saher, K., Ozgencil, Y., Khoshkholghi, S., 2025, 'Acoustic assessment of four music rehearsal rooms in accordance with ISO23591 standard' , Applied Acoustics Volume 240, <https://doi.org/10.1016/j.apacoust.2025.110878> (Indexed: Science Citation Index Expanded (SCI-EXP))
- 2023** Saher, K., Bulunuz, M., Kelmendi, J. & Nas, S. (2023). Assessment of speech intelligibility during different teaching activities in classrooms with and without acoustic treatment. Applied Acoustics, 207, 1-18. doi:10.1016/j.apacoust.2023.109346 (Indexed: Science Citation Index Expanded (SCI-EXP))
- 2020** A. S. Dümen & K. Saher; "Noise annoyance during Covid-10 pandemic: A research on public-opinion before and during the pandemic." Journal of Acoustical Society of America, Volume 148, Issue 6, Dec 2020, pg; 3489-3496. (Indexed: Science Citation Index Expanded (SCI-EXP))
- 2019** K. Saher and B. Karaböce; "The Effect of Reverberation Time and Signal-to-Noise Ratio On Word Recognition Scores By Adults and Children in Classrooms." Megaron, 14 (3), pg 385-396. (Indexed: Design and Applied Arts Index (DAAI), Avery Index to Architectural Periodicals (AIAP), in Turkish)
- 2018** K. Saher, D. Karaca and E. Türkel; "Auditory Dimension of Urban Planning: Eskişehir." Mimarlık, 402 July-August, pg 39-43. (Indexed: Design and Applied Arts Index (DAAI), Avery Index (AI), in Turkish)
- 2017** M. Çetin and K. Saher; "Building for Capturing Public Mind through Ears: Evolution of Architectural Typology as a Mechanism of Auditory Deception and Urban Control." Journal of Civil Engineering and Architecture, Volume 11 (1), pg 67-80. (Indexed: Cambridge Science Abstracts (CSA), Google Scholar)
- 2016** K. Saher and M. Çetin; "The Sounds of Crime and Punishment; a Review of Different Prison Types in Regard to Their Binary Soundscapes". IOSR Journal of Humanities and Social Science (IOSR-JHSS), Volume 21, Issue 11, Ver. 2, pg 57-67.
- 2016** K. Saher and M. Çetin; "Music and Performance as Sonic Acts of Political Struggle; Counter Political Soundscapes in Urban Realm." Sociology Study, June 2016, Vol. 6, No. 6, pg 378-391. (Indexed: Google Scholar, ProQuest/CSA Social Science Collection)
- 2016** K. Saher; "Battersea Gas Tanks." Yapı Dergisi, Volume 414: pg 166-169. (Indexed: Design and Applied Arts Index (DAAI), in Turkish)
- 2016** K. Saher; "Mountain Bike Venue Test Event Noise Assessment London 2012 Olympic and Paralympic Games." AKUSTIKA, Volume 25: pg 62-65. (Indexed: SCOPUS)
- 2009** K. Saher; "Auralization in Acoustic Quality Analysis for Open- Plan Offices", Mimarlik, Volume 350, Special File 17: Architecture and Perception of Space, December 2009: pg 47-50. (in Turkish)
- 2008** L. Nijs, K. Saher and D. van Ouden; "Effect of room absorption on human vocal output in multi-talker situations", Journal of Acoustical Society of America, Volume 123, Issue 2, 2008: pg 803-813. (Indexed: Science Citation Index Expanded)
- 2007** K. Saher and M. Rychtáriková; "Impact of Corner, Screen Absorption and Furniture to Reduce Noise Levels in an L-Shaped Room", AKUSTIKA, Volume 7, March 2007, pg. 2-11.

Papers in Other Journals

- 2019** K. Saher; "Effect of Noise on Health" Izodergi (Journal of Heat, Water, Sound and Fire Insulation), May-June, Volume 143, pg 30-32. (in Turkish)
- 2018** K. Saher; "Noise and Sound in Planning While We are Urbanizing and the Cities are Transforming" Izodergi (Journal of Heat, Water, Sound and Fire Insulation), September-October, Volume 133, pg 44-46. (in Turkish)
- 2014** K. Saher; "The sound of design." ODTÜLÜ, Volume 53, July, August, September: pg 60-61.

Books and Book Chapters

- 2021** A. S. Dümen, D.S.N. Budayan, K. Saher; (Eds); 14th National Acoustic Congress Proceedings. "Sound and Silence after 2020: Earthquakes, Protests, Covid-19". Hiper Yayın. ISBN: 978-625-7499-63-7
e- ISBN: 978-625-7499-64-4. (in Turkish)
- 2019** K. Saher, D. C. Aydın, B. S. Ozbilen, A. Sentop, N. T. Bayazit, B. Eren (Eds); 13th National Acoustic Congress Proceedings. Turkish Acoustical Society.
- 2015** S. Vergili, F. Ozis, F. Kutluk, C. Calli, K. Saher and T. Kose; "Chapter 4: Music and Technology Evaluation of Reverberation Time Differences: An FmRi Study. "In Which Direction Music is Heading? (pg.123-132), (Eds); F. Kutluk and U. Turmen, Cambridge: Cambridge Scholars Publishing.

Papers in Refereed Conference Proceedings

- 2025** Dilara Kelle, Konca Saher, Özge Üstündağ Ganiç, Acoustic Assessment of Shared Workspaces, ICA 2025 25th International Congress on Acoustics and 188th Meeting of the Acoustical Society of America, New Orleans, USA, May 18-23.
- 2024** Saher, Konca; Sentop Dumen, Ayca; Sezgin, Hakika; Nas, Sezin; Kelle, Dilara. (2024) Insights from the Acoustics Workshop in Educational Buildings by Turkish Acoustical Society. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, Nantes, France, 24-29 August.
- 2024** Saher, Konca; Dümen, Ayça Şentop; Sezgin, Hakika; Nas, Sezin; Kelle, Dilara; Demiral, Yücel; "Reflections On The International Noise Awareness Day 2023 Activities", 30th International Congress on Sound and Vibration, ICVS30, Amsterdam, 8-11 July.
- 2024** Luzzi, Sergio; Bartalucci, Chiara; Macchie, Sara Delle; Pedrero, Antonio; Saher, Konca; "International Collaborations Among Schools As A Follow-Up Of The International Year Of Sound", 30th International Congress on Sound and Vibration , ICVS30, Amsterdam, 8-11 July.
- 2024** Nas, Sezin; Saher, Konca; Mihçi, Gürkan; Aytis, Saadet (2024), "Exploring The Acoustic Identity Of Derinkuyu Underground City", 30th International Congress on Sound and Vibration , ICVS30, Amsterdam, 8-11 July.
- 2023** K. Saher, A. Ozturk, A. Sentop Dumen, Y. Demiral and A. Ozankan, Through Healthier Learning Environments in Turkish Schools, Proceedings of the 10th Convention of the European Acoustics Association, Forum Acusticum 2023, Torino, Italy, September 11 - 15, 2023 pp. 969-972.
- 2023** A. Aslan, K. Saher and A.E. Tozoglu, Acoustic Transformation of Rock-cut Caves into Performance Spaces, Proceedings of the 10th Convention of the European Acoustics Association, Forum Acusticum 2023, Torino, Italy, September 11 - 15, pp. 2567-2570
- 2023** K. Saher, H. Sezgin, A. Sentop Dumen, S. Nas, S. Kulak and Z. Ozcetin, Experiences From IYS 2020, Public Engagement And Awareness Activities In Turkey, Proceedings of the 10th Convention of the European Acoustics Association, Forum Acusticum 2023, Torino, Italy, September 11 - 15, pp. 5879-5880.
- 2022** A. Sentop Dümen; K. Saher; S. Kurra; "Towards new acoustic policies in the 'new normal' of the Covid-19 pandemic" 24th International Congress on Acoustics, 2022 October 24 - 28, 2022 Gyeongju, Korea
- 2019** K. Saher; "Comparison of Phonetically Balanced Monosyllabic Word Recognition Tests in Adults And Children." 13th National Acoustic Congress, 17-18 October 2019, Dicle University, Diyarbakir, Turkey, pg 175-186. (in Turkish)
- 2019** S. Vergili, F. Öziş and K. Saher; "Speech Intelligibility as an Acoustic Evaluation Criteria in Hospital Emergency Departments." 13th National Acoustic Congress, 17-18 October 2019, Dicle University, Diyarbakir, Turkey, pg 165-173. (in Turkish)
- 2019** N. Balkir, K. Saher, and G. Mihci; "Blending Science and Art: An Educational Perspective." EDULEARN19 Conference 1-3 July 2019, Palma, Mallorca, Spain, pg 1283-1288.
- 2019** K. Saher; "London 2012 Noise Control of Greenwich Park Equestrian Event" 14th National Service Engineering Congress, 17-20 April 2019, İzmir, Turkey, pg 1702-1711. (in Turkish)
- 2018** K. Saher; "Rain Noise Sound Intensity Testing – London 2012 Olympics International Broadcasting Centre Case

Study.” 8th Congress of the Alps Adria Acoustics Association 20-21 September 2018, Zagreb, Croatia, pp 154-157.

- 2018** K. Saher; “Acoustic Comfort Evaluation in Dining Halls - A Case Study.” 3rd National Building Physics and Environmental Control Congress, 10-11 June 2018, İstanbul Technical University, Taşkışla, İstanbul, Turkey, pp 123-130. (in Turkish)
- 2018** K. Saher; “Rain Impact Sound Insulation of London 2012 Olympics International Broadcasting Centre Roof ” 9th National Roof and Facade Conference, 12-13 April 2018, İstanbul Kültür University, İstanbul, Turkey, pg 213-219. (in Turkish)
- 2017** K. Saher and Y. Ozgencil; “Assessment of Auralizations in Music Practice Rooms for Piano and Guitar.” 12th National Acoustic Congress, 14-15 September 2017, İzmir Institute of Technology, Urla, İzmir, Turkey. (in Turkish)
- 2017** K. Saher, B. Karaboce and S. Nas; “Auralization of Phonetically Balanced Monosyllabic Word Lists in Classroom Acoustics.” 12th National Acoustic Congress, 14-15 September 2017, İzmir Institute of Technology, Urla, İzmir, Turkey. (in Turkish)
- 2017** K. Saher, S. Nas, B. Karaboce, C. Kirbas and E. Bilgic; “Comparison of Measurement and Simulation Values in the Reverberation Chamber.” 12th National Acoustic Congress, 14-15 September 2017, İzmir Institute of Technology, Urla, İzmir, Turkey. (in Turkish)
- 2017** K. Saher and Y. Ozgencil; “Assessment of Auralizations of Piano and Guitar for Music Practice Rooms.” Proceedings of the 2017 International Symposium on Musical Acoustics, 18-22 June 2017, Montreal, Canada, pg 129-132.
- 2017** K. Saher and G. Mihçi; “Auditory Exploration of Derinkuyu Underground City Cappadocia Turkey.” Invisible Places 2017 Sound, Urbanism and Sense of Place, 7-9 April 2017, Sao Miguel Island, Azores, Portugal, pg 396-403.
- 2016** K. Saher, S. Nas, B. Karaboce, C. Kirbas and E. Bilgic; “Room Acoustic Modelling Of a Reverberation Chamber.” INTERNOISE 2016 45th International Congress and Exposition of Noise Control Engineering, 21.08.2016-24.08.2016, Hamburg, pg 1043-1049.
- 2016** K. Saher and B. Karaböce; “Auralizations Of Monosyllabic Word Lists for Hearing Impaired Students - A Preliminary Study.” Euroregio 2016 9th Iberian Acoustic Congress 13-15 June 2016, Porto.
- 2016** K. Saher; “London 2012 Olympic Equestrian Event Environmental Noise Assessment” 2nd National Building Physics and Environmental Control Congress, 4-5 June 2016, İstanbul Technical University, Taşkışla, İstanbul, Turkey. (in Turkish)
- 2015** K. Saher, D. Karaca, E. Turkel and A. Stimac; “Strategic noise mapping of Eskişehir pilot area”. 11th National Acoustic Congress, 21-22 October 2015, İstanbul, Turkey. (in Turkish)
- 2015** Y. Ozgencil and K. Saher; “Assessment of Acoustic Properties of Rehearsal Rooms in Conservatories.” 11th National Acoustic Congress, 21-22 October 2015, İstanbul, Turkey. (in Turkish)
- 2015** K. Saher and A. Medley; “Battersea Gas Holders Demolition Works Environmental Noise Impacts Study.” ICOEST International Conference on Environmental Science and Technology 09-13 September 2015, Sarajevo.
- 2014** K. Saher and B. Cahill; “London 2012 Olympic and Paralympic Games – Acoustic Design Aspects of Temporary Venues”, Forum Acusticum, Krakow, Poland, 7-12 December, 2014.
- 2014** K. Saher, L. Nijs and T. Hordijk; “Acoustic Design Guidelines for Adults with Intellectual Disability”, Forum Acusticum, Krakow, Poland, 7-12 December, 2014.
- 2013** K. Saher and B. Cahill; “London 2012 Olympic and Paralympic Games – Acoustic Design of Temporary Venues”, 10th National Acoustic Congress, Yıldız Technical University, İstanbul, Turkey, 16-17 December, 2013. (in Turkish)
- 2011** K. Saher and B. Cahill; “Recommendations for Public Address and Voice Alarm (PA / VA) System Design in Underground Metro Stations”, 9th National Acoustic Congress, Middle East Technical University Congress Centre, Ankara, Turkey, 26-27 May, 2011.
- 2011** K. Saher and F. Ozis; “Subjective Assessment of Location of Absorption in a Small Room by Auralizations” 9th National Acoustic Congress, Middle East Technical University Congress Centre, Ankara, Turkey, 26-27 May, 2011.
- 2011** K. Saher and F. Ozis; “Acoustic Treatment Investigation of Gymnasium in a High School Designed for Special

Educational Needs Students”, 9th National Acoustic Congress, Middle East Technical University Congress Centre, Ankara, Turkey, 26-27 May, 2011.

- 2011** B. Cahill, K. Şaher and N. Hill; “Carbon Critical Design Considerations in Acoustics Design”, Proceedings of Institute of Acoustics, Vol 33. Pt1, Acoustic Challenges in Green Buildings Meeting, Watford, UK, 16 February, 2011, pg 7-14.
- 2010** K. Şaher and L. Nijs; “Acoustical Design Guidelines in Rooms for Adults with an Intellectual Disability”, 1st EAA Euroregio Congress on Sound and Vibration, Ljubljana, Slovenia, 15-18 September, 2010.
- 2009** K. Şaher and N. Hill; “Key Issues in the Design of Educational Buildings”, 34th International Acoustic Conference – EAA Symposium, High Tatras, Slovakia, 28-30 September, 2009.
- 2008** K. Şaher, N. Hill and J. Clouston; “Comparison between Column Speakers and Flat Panel Speakers in a Metro Station by ODEON”, Proceedings of Institute of Acoustics, Vol 30. Pt6, Reproduced Sound Conference, Brighton, UK, 20-21 November, 2008, pg 305-313.
- 2008** K. Şaher; “Auralization as an Assessment Tool in Open-plan Offices”, 8th National Acoustic Congress, Antalya, Turkey, 27-28 November, 2008.
- 2008** F. Ozis and K. Şaher; “Determination of Reverberation Time Requirements of Recording Studios for Trumpet and Violin Recordings”, 8th National Acoustic Congress, Antalya, Turkey, 27-28 November, 2008. [\(in Turkish\)](#)
- 2007** K. Şaher, F. Ozis and J.H. Rindel; “Assessment of Musical Instrument Performances for the Practice Rooms by Musicians”, 19th International Congress on Acoustics, Madrid, Spain, 2-7 September, 2007, pg 5572-5578.
- 2007** K. Şaher, J.H. Rindel and L. Nijs; “Assessment of Room Absorption by Normal and Hearing Impaired People”, 19th International Congress on Acoustics, Madrid, Spain, 2-7 September, 2007, pg 5566-5572.
- 2007** F. Ozis and K. Şaher; “Investigation of Room Acoustic Properties for Clarinet and Piano in Recording Studios”, Internoise 2007, Istanbul, Turkey, 28-31 August, 2007, pg 2632-2636.
- 2007** K. Şaher and L. Nijs; “Acoustical Quality Investigation in Actual and Virtual Rooms in Care Centres”, Internoise 2007, Istanbul, Turkey, 28-31 August, 2007, pg 2646-2651.
- 2006** K. Şaher and L. Nijs; “Absorption Coefficient for Acoustical Quality in Living Rooms in Care Centres for People with Intellectual Disabilities”, Internoise 2006, Honolulu, Hawaii, USA, 3-6 December, 2006, pg 3158-3166.
- 2006** K. Şaher and M. Rychtáriková; “*Impact Of Corner, Screen, Absorption And Furniture To Reduce Noise Levels In An L-Shaped Room*”, 33rd International Acoustics Conference EAA Symposium, Strbske Pleso, Slovakia, 4-6 October, 2006
- 2006** K. Şaher; “*Prediction and Assessment of Acoustical Quality in Living Rooms for People with Intellectual Disabilities*”, 8th PhD Symposium of the Research School: Integral Design of Structures, Zeist, the Netherlands, 20-21 June, 2006.
- 2006** K. Şaher and J.H. Rindel: “*How does Architecture Sound for Different Musical Instrument Performances?*”, Architecture, Music, Acoustics International Cross disciplinary Conference, Ryerson University, Toronto, Canada, 6-8 June, 2006.
- 2006** K. Şaher, J.H. Rindel and L. Nijs; “*Comparisons between Binaural and In-situ Recordings and Auralizations*”, 120th Audio Engineering Society Convention, Paris, France, 20-23 May, 2006. (paper #6744).
- 2006** K. Şaher, K. Angelakis and J. Alvarez; “Performance and Rehearsal Hall for Children: Collaboration between Architecture and Acoustics Students”, Proceedings of Institute of Acoustics, Vol 28. Pt2, 6th International Conference on Auditorium Acoustics, Copenhagen, Denmark, 5-7 May, 2006. (paper #195).
- 2006** K. Angelakis, K. Şaher and J. Alvarez; “Virtual Representation and Qualification of Soundscapes of Open Public Spaces”, Proceedings of Institute of Acoustics, Vol 28. Pt1, Institute of Acoustics Spring Conference, Futures in Acoustics, Today’s Research – Tomorrow’s Careers, Southampton, UK, 3-4 April, 2006, pg 98-105.
- 2005** K. Şaher, J.H. Rindel and L. Nijs; “Assessment of Impact of Reverberation Time and Absorption on Listening Conditions in Multi-Source Environments”, Forum Acusticum, Budapest, 29 August-2 September, 2005.
- 2005** K. Şaher, L. Nijs and M. van der Voorden; “Definition of Material Properties in the Acoustical Model Calibration”, 118th Audio Engineering Society Convention, Barcelona, Spain, 28-31 May, 2005, pg 1364-1372.

- 2004** [K. Şaher](#), L. Nijs, M. van der Voorden; “The Impact of Screen Design Parameters on the Reduction of the Noise Levels in Multi-Functional Spaces”, Acustica 2004, Guimarães, Portugal, 14-17 September, 2004.
- 2004** [K. Şaher](#), L. Nijs, M. van der Voorden, M. Rychtáriková; “Improvement of Speech Intelligibility in Multi-Functional Spaces by Means of Architectural Intervention”, Internoise 2004, Prague, Czech Republic, 22-25 August, 2004.
- 2004** M. Rychtáriková, L. Nijs, [K. Şaher](#) and M. van der Voorden; “Architectural Guidelines for Living Rooms, Classrooms, Offices, Sport Facilities and Restaurants”, Internoise 2004, Prague, Czech Republic, August 22-25, 2004.
- 2003** [K. Şaher](#), L. Nijs, M. Rychtáriková and M. van der Voorden; “Prediction and Assessment of Acoustical Quality in Multi-Functional Spaces for Mentally Challenged People”, 7th International Acoustics Colloquium, Zvolen-Sachticky, Slovakia, 4-5 September, 2003.
- 2003** M. Rychtáriková, L. Nijs, M. van der Voorden and [K. Şaher](#); “The Relevance of Modeling the Sound Source Directivity in Ray-Tracing Software”, 7th International Acoustics Colloquium, Zvolen-Sachticky, Slovakia, 4-5 September, 2003.

Conference Presentations (Abstracts)

- 2021** A. S. Dümen & [K. Şaher](#); “Noise annoyance in dwellings research by Turkish Acoustical Society during the pandemics.” 14th National Acoustic Congress, Bilgi University, Istanbul, Turkey — 7-8 October 2021. (online) ([in Turkish](#))
- 2021** A. S. Dümen & [K. Şaher](#); “Noise annoyance in dwellings during the first wave of Covid-19.” 180th Meeting of the Acoustical Society of America Acoustics in Focus — 8-10 June 2021. (online)
- 2017** [K. Şaher](#) and B. Karaboce; “Assessment of Auralizations of Monosyllabic Words for Hearing Impaired Students.” Acoustics '17, 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, 25-29 June 2017, Boston, USA.
- 2015** [K. Şaher](#) and M. Cetin; “Binary Soundscapes of Prisons.” Soundscapes and Sonic Cultures in America, 42nd AAAS Conference, 6-8 November 2015, Graz, Austria.
- 2015** [K. Şaher](#) and G. Mihci; “Exploration of Sonic Ecology of Derinkuyu Underground City in Turkey.” ARCHEOACOUSTICS II, Second International Interdisciplinary Conference on the Archaeology of Sound, 30, 31 October and 1 November 2015, İstanbul Technical University, Turkey.

INVITED TALKS, SEMINARS AND WORKSHOPS

- 2019** Seminar on “Acoustic Design and Cognitive Performance in Educational Facilities”; Atelier Area, Bomontiaada, İstanbul. October 11, 2019. (Sponsored by St. Gobain Rigips and SAFE Acoustics)
- 2019** Seminar on “Noise Control and Fire Safety in High Quality Buildings”; Atelier Area, Bomontiaada, İstanbul. March 06, 2019. (Sponsored by St. Gobain Rigips and Cype Turkey)
- 2019** Seminar on “Comfort Design in Offices and BIM Applications: Acoustic Comfort in Offices”; Atelier Area, Bomontiaada, İstanbul. February 01, 2019. (Sponsored by St. Gobain Rigips and Cype Turkey)
- 2016** Seminar on “Noise Control and Legislation Policy”; İzmir Economy University, Fac. Of Architecture, Dept. Architecture. İzmir, December 1, 2016
- 2016** Workshop on “Hearing the Room Skin?” Yaşar University, Fac. Of Architecture, Dept. of Interior Architecture and Environmental Design. İzmir, October 7, 2016
- 2016** Workshop on “Meas-Art: Art of Measurement”; workshop held jointly by, Kadir Has University, Faculty of Art and Design and TÜBİTAK National Metrology Institute, İstanbul, April 28-29-30, May 1 2016 (with B. Karaböce, G. Mihçi and N. Balkir).
- 2016** Workshop on “Sonic Exploration of Derinkuyu Underground City”; Sensory Histories of Place, Koç University, Research Centre for Anatolian Civilizations, 1-2 April 2016, İstanbul, Turkey. (with G. Mihçi)
- 2016** Seminar on “Audible Interior Spaces”; Izmir Institute of Technology, Fac. of Architecture, Dept. of Architecture,

İzmir, April 7, 2016. (Fanfare Architecture seminars.)

- 2015** Seminar on “Sustainability in London 2012 Olympic and Paralympic Games – Temporary Venues”; İzmir University of Economics, Fac. of Architecture, Dept. of Arch., İzmir, December 4, 2015.
- 2015** Seminar on “Acoustic Design in Interior Architecture”; Yaşar University, Fac. of Architecture, Dept. of Interior Architecture and Environmental Design, İzmir, March 13-20, 2015.
- 2014** Seminar on “Hearing Architecture: Exploring Aural Environment”; Yaşar University, Fac. of Architecture, Dept. of Arch., İzmir, November 26, 2014.
- 2014** Workshop on “Sound Scores Workshop”; Yaşar University, Fac. of Architecture, Dept. of Arch., İzmir, November 25-27, 2014 (with G. Mıhçı).
- 2013** Workshop 11th Turkish and German Designers Workshop “Skin of the City”: organized by Istanbul Commerce University Faculty of Engineering and Design and HFT Stuttgart University of Applied Sciences, İstanbul, November 11-15, 2013.
- 2013** Seminar on “Acoustic Design of Schools for SEN and Hearing Impaired”; Institute of Acoustics, London Branch Evening Meeting, London, UK, February 20, 2013 (the same lecture is given at Institute of Acoustics Midlands Branch at Birmingham 26 March 2013).
- 2009** Seminar on “Room Acoustics Applications”; Izmir Institute of Technology, Department of Architecture, May 9, 2009.
- 2009** Seminar on “ODEON Room Acoustics Software for Music Technology Studies”; 9 Eylül University, Music Technology Department, May 10, 2009.
- 2008** Seminar on “Auralization in Open Plan Offices and Rooms for Hearing Impaired”; Presentation for the Local Authorities, ATKINS, Surrey, UK, February 27, 2008.
- 2006** Workshop “Experience Ray Racing Modelling Workshop”; 5th Ecophon International Acousticians’ Seminar: Innovations in Acoustics, Helsingborg, Sweden, September 27-28, 2006.

CONGRESS & ACADEMIC ORGANIZATIONS

- 2023** K. Saher, General Chair. 15th National Acoustic Congress, 2-3 November 2023, Trakya University, Edirne, Turkey.
- 2022** K. Saher, Chair (2021). “International Noise Awareness Day Symposium”, 27 April 2022, 9 Eylül University, İstanbul, Turkey. (online) Turkish Acoustical Society Event in collaboration with Association of Occupational Hygienists (Turkey), Italian Association of Occupational Hygienists and Occupational Health And Safety Research And Development Institute (Turkey).
- 2021** K. Saher, General Chair. 14th National Acoustic Congress, 7-8 October 2021, Bilgi University, İstanbul, Turkey. (online)
- 2021** K. Saher, Vice Chair (2021). “Noise Awareness Day Seminars: Sound Insulation Legislation and Implementation”, 28-29 April 2021, İstanbul Bilgi University, İstanbul, Turkey. (online)
- 2019** K. Saher, Vice Chair (2019). “IEEE International Symposium on Medical Measurements and Application Conference”, 26-28 June 2019, Kadir Has University, İstanbul, Turkey.
- 2019** K. Saher, Member of 13th National Acoustic Congress Organization Board (2019). 13th National Acoustic Congress, 17-18 October 2019, Dicle University, Diyarbakir, Turkey.

THESIS SUPERVISION

- 2020** M. Emin Atakan (June, 2020) “Evaluation Of The Effects Of Acoustic Designs On The Reverberant Area In Home Studios”. Bahçeşehir University, Sound Technologies Master Program, Graduate School of Natural and Applied Sciences. Master Thesis. ([in Turkish](#))
- 2018** R. Kocaer (September, 2018) “Kılıç Ali Paşa Mosque Acoustic Heritage Evaluation and Acoustic Performance

Comparison with a Modern Mosque”. Kadir Has University, Graduate Program for the Preservation of Cultural Heritage, Graduate School of Science. Master Thesis. [\(in Turkish\)](#)

- 2015** Y. Ozgencil (May, 2015) “Acoustic Investigation of Conservatory Rehearsal Rooms and Improvement of Acoustic Design”. Bahçeşehir University, Sound Technologies Master Program, Graduate School of Natural and Applied Sciences. Master Thesis. [\(in Turkish\)](#)

SELECTED PROJECT EXPERIENCE

- 2023** **ÇUKUROVA AIRPORT, TURKEY** – Acoustic assessment of Cargo Building. The scope includes room acoustics design, sound insulation assessment of interior building elements and sound and vibration insulation of mechanical rooms.
- 2023** **İZMİR METRO STATIONS ROOM ACOUSTICS, İZMİR, TURKEY** - Room Acoustic Modelling of typical underground stations forming part of the İzmir Gaziemir – Karabağlar HRS Project to assess the reverberation time and acoustic performance of station areas. Platform areas, Ticket Halls, Circulation Areas of 6 types of stations were modelled in 3D Revit software. T
- 2022** **INTERCONTINENTAL HOTEL, ANKARA, TURKEY** – The scope of works included for acoustic design review of architectural, structural, and building services designs to ensure compliance to Intercontinental Hotel Groups’ performance standards.
- 2022** **INCIRLIK AIR BASE BUILDING RENOVATION, TURKEY** – The scope includes internal sound insulation, advice on reverberation and building services design. Specific focus was on the sound insulation, reverberation and speech intelligibility calculations for offices.
- 2021** **HILTON GARDEN INN, AMASYA, TURKEY** – Acoustic design for an upscale hotel project. Scope of works included for acoustic design review of architectural, structural, and building services designs to ensure compliance to Hilton Brand’s performance standards. Concept design, schematic and detail design development stages.
- 2021** **LAND OF THE LEGENDS PARK NOISE MEASUREMENTS, ANTALYA, TURKEY** – A noise survey has been undertaken at the Land of the Legends Park, Belek, Turkey to examine the detailed noise emission values of the hyper coaster at the Park. This survey has been done as part of the Noise Impact Assessment for the new roller coaster to be built at Thorpe Park, London for a Client based in United Kingdom.
- 2021** **FANUC HEADQUARTERS, İSTANBUL** – The scope includes facade sound insulation, internal sound insulation, impact noise assessment, advice on reverberation and building services design. Specific focus was on the echoes, reverberation and speech intelligibility calculations for open plan offices, restaurant areas, showroom and conference room.
- 2021** **ENVIRONMENTAL NOISE BARRIER DESIGN, KARTAL, İSTANBUL** – Noise measurements, assessment of existing noise levels, design and design of 1.3 km noise barrier of sustainable materials in Samandra-Kartal Motorway in İstanbul to reduce noise exposure of sensitive buildings. The project is developed for İstanbul Greater Municipality.
- 2021** **TIRSAN TRUCK FACTORY, SAKARYA, TURKEY** – The scope covers the studies of determining the noise exposure of the employees in the production workshop of Tirsan in Sakarya, designing the measures to be taken in the building in order to prevent and reduce the exposure and making noise measurements.
- 2020** **KİLSAN BRICK FACTORY, İSTANBUL, TURKEY** – Sound insulation calculations of brick constructions that satisfy “Regulation On The Protection Of Buildings Against Noise” airborne sound insulation criteria for apartment buildings, hospitals and educational facilities.
- 2019** **İSTANBUL NEW AIRPORT, İSTANBUL, TURKEY** – Acoustic assessment of Operation Centre, Airside Staff Gate, Line Maintenance Hangar Building, Cargo Building, Ground Service Equipment Building, Animals Quarter Area, In-Flight Storage Building. The scope includes room acoustics design, sound insulation assessment of interior building elements and sound and vibration insulation of mechanical rooms.
- 2017** **DERİNCE CULTURAL CENTRE, İZMİR, TURKEY** – Design and development for acoustic design strategy of 1000 people capacity conference hall. The scope includes room acoustics design, sound insulation assessment of interior and exterior building elements.
- 2016** **MIZBAH HOTEL CONGRESS CENTER, İRAN** – Design and development of an acoustic design strategy suitable for the

multi-purpose character of the hall. Scope includes room acoustics design, sound insulation of internal and external partitions, and noise and vibration evaluation of mechanical systems.

- 2016 RADISON BLU OTEL, OLYMPIYSKY, RUSSIA** – Acoustic project manager for detail design project. Acoustic design services include acoustic review of architectural, structural and mechanical systems, and the recommendation of appropriate details and systems according to hotel standards. The scope of the works also includes room acoustics calculations, acoustic detailing and material recommendations for the hotel's conference and ballroom.
- 2016 BALIKESİR MUNICIPAL SERVICES BUILDING NATIONAL ARCHITECTURAL COMPETITION, BALIKESİR, TURKEY**– Acoustic consultant of the design team developing concept design for municipal services building. The scope of works include environmental noise assessments, facade sound insulation, internal sound insulation, speech privacy calculations for the offices, advice on building services design.
- 2014 TECHNICAL ASSISTANCE PROJECT FOR IMPLEMENTATION CAPACITY FOR THE ENVIRONMENTAL NOISE DIRECTIVE, TURKEY** - European Union Project (Europe Aid /131352/D/SER/TR) - Non key Local Expert for the Development of Strategic Noise Maps and Action Plans for Adana, Erzurum, Eskişehir in Turkey.
- 2014 K2 BUSINESS PARK, RUSSIA** - Review of mechanical rooms of an office block for noise and vibration assessment.
- 2013 THE PARK AT NORTHPOINT OFFICE CENTRE (BLOCK 1 &3), MOSCOW, RUSSIA** – Acoustical detailed design review for architectural, structural, mechanical and environmental aspects of an office park.
- 2013 NAMASTE HOTEL, MUMBAI, INDIA** – Acoustic project manager for the design and construction of this 'iconic' 5* hotel in the heart of Mumbai. Full acoustic design services included review and assessment of architectural, structural, MEP, interior design, audio visual and environmental design proposals.
- 2013 BATTERSEA GAS HOLDERS DEMOLITION, UK.** - Environmental Impact Assessment of Battersea Gasholders demolition works in relation to Noise and Vibration.
- 2012 DERBY LIVE ASSEMBLY ROOMS, UK** - Assessment of the Great Hall by acoustic modelling. Reverberation time, speech intelligibility and musical clarity were assessed, including amount and position of acoustic treatment to ensure high quality acoustic for both speech and music.
- 2012-2008 LONDON 2012 OLYMPICS OFF PARK VENUES, UK – Project Manager** - Acoustic lead to Off-Park Venues. Scope of works included noise surveys, noise assessments and reports for planning applications, noise management plans, environmental impact studies, architectural, environmental and MEP acoustic design for all off-Olympic Park sporting venues and on-park LOCOG venues. This involved several years of work including planning submissions, noise modelling, detailed design input and monitoring during the games.
- 2011 KING ABDULAZIZ INTERNATIONAL AIRPORT DEVELOPMENT PROJECT, SAUDI ARABIA** – Project Manager – Scope of works included Public Address / Voice Alarm system design and digital modelling to ensure compliance to NFPA fire codes and building acoustic review and design advice. PA/VA system design for main terminal buildings and the external train stations, bus stations and the mosque. The main terminal buildings include check-in hall, arrivals hall, duty free area, automated people movers stations, waiting lounges and piers.
- 2010 KAZAN RIVIERA MIXED-USE TOWER, RUSSIA – Project Manager-** Acoustic design for a mixed-use Tower in Kazan, which has residential, hotel and office cores. Scope of works included for acoustic design review of architectural, structural and building services designs to ensure compliance to performance standards. Concept design and preliminary design stages.
- 2010 YAS ISLAND WATER PARK, ABU DHABI, AED** - Acoustic design input into development of large water park located on Yas Island, Abu Dhabi. Scope of works included PA design, review of building services noise impact, and sound insulation to areas.
- 2010 BIRMINGHAM NEW STREET STATION, UK** - Technical project management of design of PA/VA system in this large scale redevelopment project. Comprising re-design of 12 platforms, large concourse and associated spaces to ensure speech intelligibility and sound pressure coverage were in line with BS and Network Rail Standards. Specification of speakers, speaker locations, and architectural finishes were all part of the scope for this demanding project.
- 2010 CROSSRAIL, UK (2010)** – PA/VA design for platform, concourse and cross passages to ensure compliance with BS, and CrossRail Standards, in terms of speech intelligibility and sound pressure level coverage.
- 2010 MAIN MEDIA ROOMS- 2012 OLYMPICS TEMPORARY VENUES, UK** - Reverberation time and speech intelligibility

analysis for the main media rooms. The analysis is done by 3d acoustic modelling in ODEON. The scope also included room acoustics and sound insulation recommendations for the control room and translation booths to ensure a high quality acoustics for Olympic conferences and broadcasts.

- 2010 KOLKATTA METRO STATIONS, KOLKATTA** - Reverberation time analysis for three metro stations.
- 2009 HOLY TRINITY SCHOOL, UK** - BB93 Assessment of a primary school. The design of the school incorporated internal noise levels, reverberation, sound insulation and noise control recommendations
- 2009 OCKENDON SCHOOL, ASSEMBLY HALL, UK** - Reverberation time measurements and acoustic modelling of the assembly hall. Advice on interior finishes.
- 2009 CAIUS HOUSE FIT-OUT, UK** - Acoustical assessment of a youth centre. Advice on design of a recording studio and control room
- 2009 MYPLACE@VINE LANE, UK** – Room acoustic design recommendations for the design of a performance hall, which was converted from a pool. Sound insulation testing and building design recommendations
- 2009 BOND STREET RAIL EXTENSION, UK** - PA/VA system design for large volume platform and concourse areas within the Station. Modelling was carried out in ODEON modelling software and output ensured compliance to British Standards and Network Rail Standards for Speech Intelligibility in Stations.
- 2009 BLACKFRIARS LUL AND RAIL STATION, UK** - Large scale rail station. Environmental planning consents for two London Boroughs formed a major part of the delivery with impact from Public Address System a potential issue. Recommendations for mitigation to ensure that sensitive receivers were not affected.
- 2008 ATKINS LAND REGISTRY OFFICES, UK** – ODEON modelling of an open plan office. Assessment of speech privacy and interference. Auralizations at various positions in the office with background noise.
- 2008 CHANNEL TOWERS, DUBAI, AED** - Preliminary design review of architectural design of three residential tower blocks. Scope of Works included review of road traffic noise and sound insulation to areas and building services noise impact.
- 2008 MAHBOULA OFFICE TOWER, KUWAIT** - The scope includes facade sound insulation, internal sound insulation, speech privacy calculations for the offices, advice on reverberation and building services design.
- 2008 IRIS MIST-SETH TOWER, DUBAI, AED** - Detail design review of architectural, structural and mechanical design of a residential complex in Dubai.
- 2008 ST. ANN SEN SCHOOL, UK** - BB93 Assessment for a SEN (special educational needs) school. Room acoustic modelling for dance/drama hall, music room, typical classroom and hydrotherapy pool.
- 2007 IBIS & NOVOTEL HOTELS, DUBAI, AED** - Full acoustic design services for high profile luxury hotel complex in Dubai. The scope of works included detail design review of architectural, structural and mechanical acoustic design services.
- 2007 GOSWELL ROAD, UK** - Residential Units PPG24 Assessment, BS8233 Assessment of façade glazing and ventilation.
- 2005 OFFICE BUILDING, ROSKILDE, DENMARK** - Constructing 3D acoustical model, speech privacy calculation, speech intelligibility and noise annoyance calculation.
- 2005 COPENHAGEN BUSINESS SCHOOL CLASSROOMS/CANTEEN** - Constructing 3d acoustical model, material recommendation, speech intelligibility and speech privacy calculation.

REFERENCES

- **Prof. Dr. Sevil Sariyildiz**

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