

IIVAV Fellows and Senior Member

The following seven members: Barry Gibbs, UK; Bela Buna, Hungary; Lars Håkansson, Sweden; Eric Herrera, USA; Jian Kang, UK; Marek Pawelczyk, Poland; and Jun Yang, China have been admitted to the grade of Fellow by the International Institute of Acoustics and Vibration (IIAV).

Barry Gibbs



Professor Barry Gibbs is a member of the Acoustics Research Unit in the Liverpool University School of Architecture. His main research is into sources of structure-borne sound, particularly for prediction and control of noise in buildings. Other interests include low frequency sound transmission in buildings and the development of acoustic sources for sonic cleaning of industrial processes. He serves on national and international standards committees

on machine noise and vibration and has acted as consultant in room acoustics, environmental noise and for noise control engineering. He holds or has held over twenty major research grants for research ranging from analysis of the vibration of structural elements to the use of impulse response methods in acoustics field measurement. A recently funded project, on vibro-acoustic transmission in buildings, is in collaboration with the Fachhochschule Stuttgart-Hochschule für Technik and stems from his role as the UK representative on European standards committees concerned with the characterisation of vibrating sound sources. He is the author and co-author of over 80 journal papers and over 150 conference papers and was founding co-editor of the journal *Building Acoustics*, a quarterly international journal on the acoustics of the built environment. Prof. Gibbs has been principal supervisor for approximately 20 PhD students and has examined about the same number at universities in the UK, the Netherlands, Hong Kong and Australia.

Bela Buna

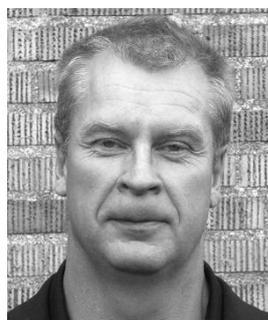


Since 1994 Bela Buna serves as head and main owner of a company concerned with environmental protection. His main field of activity is in acoustics, noise and vibration control. He is a member of the Acoustical Committee of the Hungarian Academy of Science, a member of the German and French Acoustical Societies and fellow of the UK Institute of Acoustics. Previously, he worked for 27 years at the Institute of Transport Sciences, Budapest. He

received a M.Sc. in traffic engineering and later in electrical engineering (instruments and process control). He speaks English, German, and some French. His Ph.D. thesis was concerned with the prediction of road transport noise. Dr. Buna has been involved in international studies and study tours, and has represented Hungary in various working groups (ISO, ECE, EU, and the EU WG6 Railway Noise). He has published

more than 55 articles (some in various journals, e.g., *ATA*, *Applied Acoustics*, *Noise Control Engineering*, *Vehicle Design*) and presented papers at international conferences. He has written four books, and book chapters (in *Verminderung des Verkehrs-lärms* of Springer Verlag, and the *Transportation Noise Reference Book* of Butterworths). Dr. Buna has recently organised a workshop in Hungary on the application of numerical methods in acoustical planning under the Hungarian Academy of Science. He has also taken part in different European common projects and regularly writes book reviews for the IIVAV.

Lars Håkansson



Lars Håkansson received the M.Sc. degree in Electrical Engineering from Lund University of Technology, Lund, Sweden, and the Ph.D. degree, in Mechanical Engineering from Lund University of Technology, Sweden, in 1989 and 1999, respectively. He joined Blekinge Institute of Technology (BTH) 1999 and was appointed senior lecturer in electrical engineering and continued to expand his research within the

area of noise and vibration control. In 2005 he was appointed associate professor and received the responsibility, as principal researcher and advisor, for the active control group in the Department of Signal Processing, BTH. Dr. Håkansson is a professor in the Department of Applied Signal Processing (former Department of Signal Processing), at BTH. His current research interests are in signal analysis, condition monitoring, signal processing, active noise and vibration control, remotely controlled laboratories, analytical and experimental modelling of mechanical and acoustical systems. He has a keen interest on developing new technology and his research is generally in collaboration with industry. This has resulted in several patents. Lars Håkansson is a member of the IIVAV and the Scandinavian Vibration Association (SVIB). He is a member of the Editorial Board of the *Journal of Low Frequency Noise, Vibration and Active Control* and of the Editorial Board of the *Journal of Advances in Acoustics and Vibration*.

Eric Herrera

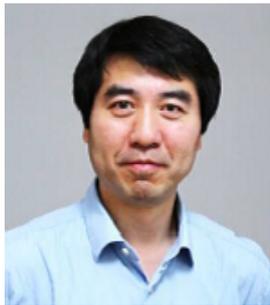


Eric Herrera's career has spanned over 25 years in NASA, Boeing, Bombardier, Xerox, Freudenberg, Alliant Techsystems (ATK), Boeing Defense and Space. He is currently serves in a multidisciplinary leadership role with the Boeing Company. He has developed methodologies for increasing productivity such as accelerated PD (APD) &

Systems Integration Hybrid Engineering (SIHE) now adopted in the industry. In addition, he has headed up two state of the art laboratories, staffing, P&L, technology and project management. He has also participated in the FAA certification of Boeing aircraft, made possible by use of modeling and predictive codes. In addition, he has developed codes to model aerodynamic/structural interactions as well as near and far

field fluctuations. He was also involved in developing novel composite material for the Sealaunch launch vehicle, now being used on Boeing Aircraft. He also participated in the inaugural launch of the Sealaunch vehicle from a floating platform at sea. This required developing new predictive tools for unique dynamic loads and environments. Eric received numerous patent awards for new materials and technology, such as optimized fiberglass structures with inherent damping, composite polymers, vibration controlling devices. He participated in the inaugural launch of the NASA/ATK Ares 1-X launch vehicle and designed isolation devices for components that were on this maiden flight.

Jian Kang



Jian Kang is the Professor of Acoustics at the University of Sheffield School of Architecture. Prof Kang obtained his first degree and MSc from Tsinghua University in China, and PhD in acoustics from the University of Cambridge. He worked at the University of Cambridge and the Fraunhofer Institute of Building Physics in Germany. He is a fellow of the UK Institute of Acoustics, a fellow of the Acoustical Society of America, an EPSRC College member, and the Editor in Environmental Noise for Acta Acustica united with Acustica. His publications include three books, over 100 papers in refereed journals, and more than 300 conference papers and technical reports. He has been the principal investigator for over 50 research projects supported by funding bodies including EPSRC, EU, British Academy and Royal Society, and a consultant for more than 50 acoustics and noise control projects internationally. Prof. Kang is the coordinator of the WUN (Worldwide Universities Network) Environmental Acoustics Network; chair of the EU funded COST Network on Soundscape of European Cities and Landscapes, with 40+ international partners in various disciplines and sectors; and co-chair of the EPSRC funded Noise Futures network, with 30 members from various sectors including researchers, policy makers and consultants.

Marek Pawelczyk



Marek Pawelczyk obtained his M.Sc. in 1995, Ph.D. in 1999, D.Sc. (habilitation) in 2005, and attained the scientific title of professor in 2014. He is currently a full titular professor at the Silesian University of Technology, and holds the positions of vice-director of the Institute of Automatic Control, and Head of Measurements and Control Systems Division. He also gained professional experience at a number of universities in Germany, UK, and

Denmark. He is an author of three books on active control, about 150 journal and proceedings papers, and five patent applications. He has been a frequent reviewer for several international journals, book publishers, international conferences, and Ph.D. theses in several countries. He has served on many scientific committees and organising committees of international conferences. He cooperates closely with industrial companies.

He is a co-author of several projects including: ultrasonic monitoring of petroleum fractions; safety monitoring in mines; active personal hearing protections systems; active noise control in industrial halls; active control of machinery; noise reduction in large-scale HVAC systems; active noise control in headrests; and semi-active control of vehicle suspension. He has received many prizes from domestic and international organizations. He has been involved in the IIAV for many years. Since 2008 he has been the Managing Editor of the International Journal of Acoustics and Vibration. In 2007-2011 he was the Vice-President for Communications, and in 2012-2014 President of the IIAV. He was the General Chair of the 16th ICSV held in Krakow, Poland, in 2009.

Jun Yang

Jun Yang is a Distinguished Professor of Chinese Academy of Sciences and is now the Executive director of the Acoustical Society of China. He chaired the Local Organizing Committee for the 21st International Congress on Sound and Vibration (ICSV21) and contributed significantly to acoustics research and education. Prof. Yang has been engaged in the research and development of acoustics and signal processing for nearly 30 years. His research interests include noise and vibration control, active control system, communication acoustics, 3D audio system, acoustic signal processing, and nonlinear acoustics. He has completed over 30 research projects for industries and the government, and received over 100 million RMB in research and development funds. Prof. Yang has published more than 150 refereed papers in journals and book chapters, over 200 papers in conferences. He has been granted 40 domestic and international patents.

Thomas Lorenzen, USA, has been admitted to the grade of Senior Member by the International Institute of Acoustics and Vibration (IIAV.)

Thomas Lorenzen



Thomas Lorenzen started work at dBA Inc (an acoustical engineering firm) in 1989 after graduating from Georgia Tech. He has worked in the electronics and/or building industry for all of his adult life. After completing several semesters of college credit in architectural design, he changed his course of study to electronics engineering due to his interest in this rapidly evolving field. After receiving degrees in engineering (ASEET, BSEE), Mr. Lorenzen worked for several manufacturers and contractors in related areas while pursuing post-graduate studies in architectural acoustics (MS – architectural acoustics). Thomas Lorenzen has background and experience in projects dealing with acoustics, communication systems, and noise control. He has the following certifications and professional affiliations: Acoustical Society of America (ASA), Audio Engineering Society (AES), Institute of Noise Control Engineering (INCE), Institute of Electrical and Electronics Engineers (IEEE), National Society of Professional Engineers (NSPE), Music Educators National Conference (MENC), "Syn-Aud-Con", International Communications Industries Association (ICIA) Design Council. Mr. Lorenzen has been the principal acoustician for dBA Acoustics inc., for over 26 years.