

Sponsored by I-INCE
2019 Practice of Noise Control School
Sunday 16 June, 2019, 10:30–16:15
Room , El Campo de las Naciones, Madrid.
(INTER-NOISE 2019 CONGRESS VENUE)

Overview of School

- 10:30-11:00 Sign in and Introductions
- 11:00-12:00 Noise and Motor Vehicles
- 12:00-13:00 Soundscape – only an intervention or a new approach in noise control?
- 13:00-14:00 Lunch (Students and Lecturers Participating in the School, I-INCE)
- 14:00-15:00 Industry & Machinery Noise Control
- 15:00-16:00 Building Acoustics: Design Process in Big Scale Projects
- 16:00-16:15 Closing remarks and presentation of attendance certificates

Details of Sessions are given below.

Presenters and Focus of Each Session

Paul Donovan, Sc.D., Principal at Illingworth & Rodkin, Inc., California, USA.

Title: Noise and Motor Vehicles

Bio: Paul Donovan is a Principal at Illingworth & Rodkin, an engineering consulting firm based in California. Paul began his professional career in acoustics in 1976 and has worked at Wyle Labs, National Bureau of Standards and General Motors before joining Illingworth & Rodkin in 2001. He has led projects and group activities in tire/road noise, interior noise control, aerodynamic noise generation, and exterior vehicle passby noise. His particular areas of expertise include tire noise, sound intensity methods, aeroacoustics and wind tunnel testing, and structure-borne sound analysis. He has authored numerous technical papers and given short courses in his areas of expertise. In 2001, he served as President of the Institute of Noise Control Engineers (INCE-USA), and was recently appointed Secretary General of the International Institute of Noise Control Engineers (I-INCE).

Description: This discussion will include a number of topics concerning motor vehicle noise in terms of design, testing, and vehicles as components of highway noise. The discussion touch will on areas of concern such as aerodynamic noise, interior and exterior tire/pavement noise, structure-borne noise, vehicle noise source mapping, and highway noise abatement. It will draw upon years of work experience at General Motors and as a private consultant to government agencies including state highway agencies and the National Cooperative Highway Research Program.

Brigitte Schulte-Fortkamp, Professor (recently retired), Psychoacoustics and Noise Effects, Institute of Engineering Acoustics at the Technische Universität Berlin, Germany.

Title: Soundscape – only an intervention or a new approach in noise control?

Bio: Brigitte Schulte-Fortkamp is a Fellow of the Acoustical Society of America and a Distinguished International Member of the Institute of Noise Control Engineering (INCE USA). She has served in major leadership positions in several acoustics societies, and is currently Vice-President of the European Acoustics Association. In 2010, she was awarded with the Hear the World Foundation award and in 2012 she was the recipient of the European Soundscape Award. She has served on many standards working groups including ISO/TC 43/SC 1/WG 54, and was the project leader of Acoustics-Soundscape-Part ISO/TC 43/SC 1/WG 54 -TS 12913-1/ 2: data collection and requirements in soundscape studies, which was recently published. Among her more than 200 publications, in 2016 she edited, with Jian Kang, the book “Soundscape and the built environment”.

Description: Soundscape is a construct of human perception, which is influenced by the socio-cultural background, as well as by the acoustic environment in context. Among others, the meaning of sound, the composition of diverse sound sources, the listener's attitude and expectations towards the acoustic environment are most important with regard to the soundscape concept. Previous experiences of individuals with the acoustic environment are significant to completely comprehend the different perceptions and assessments of the acoustic environment. Since 2014 there is a standard on Soundscape, and in 2018 a second part was published with regard to data collection, the third part on analysis is under development. The question will be how much Soundscape will contribute to the quality of life of the people concerned?

Steve Marshall, Ph.D. Mechanical Engineering
President, Scantek Inc.

Title: Collaborative Roles in Industrial Noise Control

Bio: Steve has worked in sound & vibration control for over forty years. He was employed in the transportation industry for twenty years and in the HVAC industry for thirteen years. Steve is a registered professional engineer, a board certified member of INCE-USA, and a Fellow of INCE-USA. Currently he is serving as President of INCE-USA.

Description: Achieving acceptable environmental noise levels for industrial projects requires the collaboration of multiple parties. The parties typically represent interests such as equipment manufacturer, plant operator/owner, acoustic consultant, and the governing municipality. Each of these parties require noise control expertise on staff. For the student or young noise control professional, understanding the various roles in an industrial project may provide insight into their desired career path.

Alexander Díaz Chyla, Ph.D. Architecture.
Senior Acoustic Consultant, Advanced Building Consulting, Arup, Madrid Spain

Title: Design process in big scale projects

Bio: Alexander has worked on a broad range of Building Acoustics projects (stadiums, airports, hotels, commercial..), and has been involved from initial sketches to site supervision and commissioning. After pursuing his Ph.D. in Acoustics at the Universidad Politécnica de Madrid, he joined Arup and started the Arup Acoustics practice at the Madrid office. Alexander is also developing a scientific and teaching career as a member of the Research Group of Architectural Acoustics at UPM, by participating in international research projects and teaching acoustics in masters and professional associations.

Description: In this presentation he will discuss the design process in big scale projects, the different construction phasing, contractor timing, the aim behind each issued document and its implication for acoustic consultants.