



Society of Acoustics (Singapore)

## **Society of Acoustics (Singapore) online workshop on 3 September 2020, 10:00 AM – 02:30 pm.**

### **Topics for the workshop:**

**10:00 am - 10:45 am: Thailand, noise awareness 2005-2020, Michel Rosmolen**

#### **Speaker:**

Michel Rosmolen is an acoustical engineer at Geonnoise Asia with over 30 years of experience in building acoustics, room acoustics and environmental acoustics. 15 years of consulting experience in the Netherlands and 15 years in SE Asia. He has been working extensively in building acoustics (bar/pub noise and vibrations in residential buildings), noise upgrades of residences (start of noise control for residences due to Rail- and Road noise paid by the Dutch Government) and Room Acoustics in various projects from offices, classrooms to auditoria and multifunctional halls. He is very much proactive in creating awareness for the dangers of noise and preventing noise-induced hearing loss.

#### **Summary:**

After founding Geonnoise Asia in 2005 in Thailand there were no or very few jobs in acoustic consulting. Most big jobs were done by overseas consulting companies and paying a consultant for smaller jobs was not the mindset. Lenient noise legislation gives polluters lots of room to spread noise nuisance and enforcement of these lenient laws is lacking. Much has changed since 2005 and more people are aware of the impact of noise. A brief overview of legislation, noise monitoring and noise awareness in Thailand over 15 years.

**10:45 am - 11:30 am: If a tree falls in a forest and no one is around to hear it, does it make a sound?, Dr Balamurali B.T.**

#### **Speaker:**

Dr Balamurali B T is a postdoctoral research fellow affiliated to the Audio & Acoustics Research Group in Singapore University of Technology and Design (SUTD). He got his PhD from the University of Auckland, New Zealand in 2015. His thesis was on Forensic Voice Comparison. Before joining SUTD, he worked as a researcher at Auckland Bio-Engineering Institute (ABI).



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During his position at ABI and the current one at SUTD, he had worked on solving many interdisciplinary research problems using the state-of-the-art statistical modelling, AI algorithms and published, presented the findings in reputed journals and conferences. The problems range from bio-signal classification, speech/speaker recognition, spoofing signal detection, music type/musical instrument prediction/classification, fluid flow pattern prediction/classification, vocal tract impedance analysis etc. He has a number of project collaboration with major hospitals in Singapore including SGH, CGH, KKH and NUH and also collaborated with industrial partners such as Panasonic, Singapore.

**Summary:**

"If a tree falls in a forest and no one is around to hear it, does it make a sound?". The key to this philosophical conundrum depends on the word "sound": it is both a description of a physical phenomenon (compression and rarefaction in the air) and also where information is carried from the cues present in the sound signal. The information present in sound signals can be used to study the underlying phenomena creating them, including sounds of biological origins, liquid stream sounds, cough sounds, and mobile phone touch sounds. In this talk, I present work done at the Audio and Acoustics Research Group in Singapore University of Technology and Design (SUTD), where we employ acoustic signals to understand various healthcare and security applications by using state-of-the-art audio features, statistical modelling and AI algorithms applied in our collaboration with major hospitals and industry partners in Singapore.

*11:30 am -12:30 pm : lunch break*

**12:30 pm - 1:30 pm: Acoustics Engineering and Research Opportunities at SIT, A/P Alfred Tan, A/P Susanna Leong**

**Speakers:**

Name: A/P Alfred Tan, A/P Susanna Leong

**Summary:**

Synopsis: In this talk, we will briefly introduce a module at the Singapore Institute of Technology (SIT) called Acoustics Engineering in Sustainable Infrastructure Engineering (Building Services) degree programme. Our reverberation chamber will also be highlighted to provide a glimpse of the applied pedagogy training. As SIT will be moving to our new campus in Punggol in a few years' time, plans for the latest acoustic chambers will also be shared. We will conclude with some discussions on projects related to acoustics which are open for collaborations.

In the second segment, we will share about our recently launched Industrial Doctorate and Industrial Masters (ID/IM) degree programmes at SIT. In SIT, we believe in creating opportunities for all potential adult learners to upskill and achieve their goals.



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Hence, the ID/IM programmes are designed to develop talent pipeline at the postgraduate level for the industry and to equip professionals with applied research skills and industrial management knowledge, where the graduates of these programmes are envisioned to have made innovative advances in their organization's business, practice or processes.

**1:30 pm - 2:30 pm: An Overview of Transport Noise Impact Assessment, Mandy Yong**

**Speaker:**

Mandy Yong is an Acoustician in AECOM with over 10 years of experience in architectural acoustics and environmental noise impact assessment for projects in Singapore and Asia. Mandy predominantly worked in design, project management of acoustics projects of different types – master planning, feasibility studies, advance engineering, detailed design and supporting construction. For transportation noise impact assessment projects, she was involved in Tencent Hub (Shenzhen, China), Singapore High-Speed Rail, RTS Link (Johore Bahru and Singapore), North-South Corridor and several residential development projects.

**Summary:**

Technical Guideline for Land Traffic Noise Impact Assessment (NEA) has been a requirement for new transport developments/noise-sensitive buildings or A&A works in Singapore since 2016. Its objective is to assess the land transport noise impacts on noise-sensitive buildings and to ensure that noise mitigation controls are implemented adequately for naturally ventilated noise-sensitive buildings. In recent years, Singapore is placing more emphasis on land traffic noise impacts on residential buildings as the city has become noisier over the years as it continues to develop.

Free to join for Acoustical Society (Singapore) members.

Non members fee 10 SG\$ (please rsvp to [mrosmolen@geonoise.asia](mailto:mrosmolen@geonoise.asia)).