

**Institute of Acoustics (IOA)
London Branch Evening Meeting**



**London South Bank University (LSBU) -IOA
Diploma student projects
NTI-Audio
best project award**

Impact Noise and Vibration Induced by Deadlifts –Rebecca Page ¹

Acoustic design of a heritage school building - Rhiannon Hawkins²

On 17th January 2024 at 18:00h, In-person+ online
at London South Bank University Hub Building, 116 London Road,
London SE1 6NJ. Blackfriars Lecture Theatre

Two of the best 2022-23 IOA Diploma final projects undertaken at the London South Bank University (LSBU) will be presented. NTI-Audio UK managing director will present a prize to the winner of the 2022-23 best LSBU IOA Diploma final project award.

Please read below the abstracts of finalist projects to be presented at the meeting.

Impact Noise and Vibration Induced by Deadlifts

Rebecca Page

This project aimed to investigate impact noise and vibration induced by deadlifting. Most studies researching the subject have used smartphones to obtain results, which is a contested subject. This study used both acoustic analyser and smartphone applications for data collection, concluding smartphone data was unreliable. By using the data from the acoustics analyser, it was found that there was no definitive correlation between noise and deadlift weight whereas there was a proportional relationship between weight and vibration. Furthermore, sound measurements suggested that deadlifts could pose a risk to noise induced hearing loss (NIHL).

Acoustic design of a heritage school building

Rhiannon Hawkins

This presentation will focus on the use of modelling existing spaces to allow for the assessment of proposed refurbishment design, primarily the inclusion of acoustic absorption. It will also look to frame the acoustic options in such a way that balances the needs of an acoustic environment suitable for a school that is also sensitive to the heritage fabric of the building.

Attendance Details

Please book your place on following link:

<https://www.cpdtag.com/app.php?event=AAB70C71D2A02B5959B7E5F75E56F4C>

Those planning to attend in person MUST register for security access.

Those joining online do not need to register.

The nearest Tube station is Elephant and Castle.

As usual, we will be heading to the pub after the talk to catch up and continue the conversation. It would be great to see as many people in person as possible.

For those unable to attend in person, please join via Zoom (no need to register).

The details to join are provided below.

Join Zoom Meeting

<https://us02web.zoom.us/j/81908339857?pwd=QUpBMnV2V3JCZjUxb05SSDJBTjk4Zz09>

Meeting ID: 819 0833 9857

Passcode: 235869

For more details of IOA regional branch activities please refer to the IOA website: www.ioa.org.uk

Topics and speakers for the evening meetings are generally identified and organised by the London Branch Committee, but we always welcome new ideas and suggestions for future presentations. If you have any ideas or suggestions, or may even like to give a presentation yourself, please contact the London Branch committee secretary Ben Southgate ben.southgate@sandybrown.com.