

Low Frequency Noise and Health

Lecture about low frequency noise and infrasound and its effects on health, by Dr Mariana Alves-Pereira. Held in Gram, Denmark, on December 14, 2016.

See the lecture here: <https://www.youtube.com/watch?v=I5BV8QSR2Ic>

Increasing technological development is putting communities at risk due to insidious low frequency noise and vibration. Vulnerable at risk groups include those working in high exposure environments, such as airline pilots and other transportation industries, and those living in close proximity to industrial scale installations.

Alves-Pereira and colleagues have been conducting epidemiologic studies over the past 20 years of airline pilots, technicians, engineers and other people who are chronically exposed to low-frequency noise and infrasound. The effects are grim: cardiovascular, respiratory, neurologic, and renal pathology and symptoms, which they call vibroacoustic disease (VAD).

*VAD is well established in the clinical literature. It has been amply documented and is readily detected by a variety of diagnostic tests.

Associate Professor Alves-Pereira will be describing Vibroacoustic disease, discussing her work in the field, the latest developments and the implications of low frequency noise and infrasound exposure.

Mariana Alves-Pereira holds a B.Sc. in Physics (State University of New York at Stony Brook), a M.Sc. in Biomedical Engineering (Drexel University) and a Ph.D. in Environmental Sciences (New University of Lisbon).

She joined the multidisciplinary research team investigating the biological response to infrasound and low frequency noise in 1988, and has been the team's Assistant Coordinator since 1999. Recipient of three scientific awards, and author and co-author of over 50 scientific publications (including peer-reviewed and conference presentations), Dr. Alves-Pereira is currently Associate Professor at Lusófona University teaching Biophysics and Biomaterials in health science programs (nursing and radiology), as well as Physics and Hygiene in workplace safety & health programs. Mariana Alves-Pereira can be readily reached at: m.alvespereira@gmail.com.