Physics Colloquium

“Analysis and interpretation of long-term soundscape recordings”

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Friday November 9, 2012
4:10 – 5:00 pm, EPS108

Abstract: An emerging problem in audio forensics and environmental soundscape studies is that long-term audio recordings may comprise days, months, or even years of recorded material. Manually searching and auditioning hours and hours of audio material to detect subtle, telltale sound events is expensive, tedious, and error prone. High-speed automated search and classification of sound sources and sound events is essential. The fundamental objective of these new analysis techniques is to transform the audio signal into a domain in which the desired signal attributes can be most readily identified and classified. Although many techniques are being applied to this problem, the need for improved identification and classification techniques remains an open and fascinating research area. Audio examples will be presented.

Host: Rufus Cone

Refreshments 3:45 p.m.
EPS 2nd Floor Atrium