

Attraction Sound in the Swiftlets House

Siti Nurzalikha Zaini Binti Husni Zaini, Sunardi,
Kamarul Hawari Bin Ghazali.
Faculty of Electrical Engineering
Universiti Malaysia Pahang
Pekan, Malaysia
snzhz.ct89@gmail.com, sunardi@ump.edu.my,
kamarul@ump.edu.my

Saiful Nizam Bin Tajuddin
Faculty of Science and Industrial Technology
Universiti Malaysia Pahang
Gambang, Malaysia
e-mail: saifulnizam@ump.edu.my

Abstract—This research about the analysis of attraction sound for swiftlets to enter the swiftlets house. There are important thing for industry to attract swiftlets enter and build their nests in man-made house. Swiftlet house usually house fitted bird-call recording from original sound in the cave to attract attention bird go inside house to be doing nest. Therefore, this study analyze sound features that has attracted attention bird. Ten samples of swiftlets sound were analyzed by using Fast Fourier Transform in Matlab software to identify sound characteristic that attract swiftlets. Specific sound characteristic for swiftlets attraction on frequency and magnitude of original sound and noise have been identified.

Keywords—swiftlet, sound, attraction, FFT

and build nest. These sounds just taken using trial and error method without analysis (frequency, amplitude, wavelength, or other element) of sound involve in signal to attract the swiftlets. This method is sometimes successful to attract the swiftlets, but certainly these sounds contains noisy and disturb by another sound.

The objective of this research is to identify the sound of characteristic for swiftlets attraction. There are 10 samples of sound have placed at external location in swiftlets's house to be analyzed for frequency and magnitude.

II. Swiftlet Attraction using Sound