

Plenary Speaker: Tse, Kwock-Ping John, Ph.D.

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“What does your voice look like when something goes wrong?”

This talk has its focus on issues concerning speech production and the spectrographic properties of pathological speech as related to voice disorders. A subtitle for the talk would properly be stated as “A talk on the spectrographic properties of pathological speech sounds, respiration and phonation, etc. The talk consists of four parts. First, it begins with introductory remarks on the spectrograph as a tool for speech analysis and the use of it to render qualitative analyses of voice in the description and evaluation of vocal pathology for vocal rehabilitation, diagnosis of voice disorders, etc. Second, samples of normal and disordered speech sounds are reviewed and compared. Third, spectrographic properties of both normal and disordered speech sounds will be analyzed. Finally, some general principles of respiration as related to phonation will be described and some reflections on phonation and practical suggestions for people whose professions require prolonged use of their voice will also be made.

這份研究主要探討言語形成及有關言語失用中音聲異常的聲學特質。次要的相關議題包含了聲音異常中，音的聲學屬性、呼吸律動以及發聲模式。研究包含四個部份，首先介紹如何藉著光譜儀在言談分析、語音重建及言語失用等研究上得到精確的語音特質及分析數據。第二，重新探討及比較正常言語及言語失用中的語音。第三，進一步分析正常言語及言語失用中的聲學屬性。最後，提出一些發聲呼吸上的基本原理及長期以聲音當工具的人們對這議題的建議及看法。