

## **14. Digital signal processor- based signal generation and recording. Programming of Tucker-Davis system 3 hardware and simple interfacing with Matlab.**

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The use of digital signal processor (DSP) hardware provides the bioacoustician with an unprecedented potential for signal generation and manipulation. In this lecture and practical I will introduce you to the Tucker-Davis (TDT) system 3, since it is a de facto standard in auditory research and provides a straightforward, graphical programming interface that is relatively easy to use.

I will also describe simple interfacing of the DSP program with Matlab.

The practical will provide you with an opportunity to program the TDT system and write simple Matlab scripts to control the DSP.