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AES Audio Engineering Society - Pacific Northwest Section

Around the Puget Sound, Seattle, Washington, U.S.A.

**NOTE: anyone can attend this meeting regardless of their status as an AES member.
AES MEMBERSHIP IS NOT REQUIRED.**

**The Brain-Music Interface
The Encephalophone
Presented By
Thomas A.S. Deuel - MD, PhD
University of Washington DXARTS
and**

**The Pacific Northwest Section of the AES
Wednesday, October 25th, 7:30pm
DigiPen Institute of Technology - Michelangelo Room**

[Directions to DigiPen](#)

Can our brains be somehow connected to and directly operate a musical instrument (with the aid of some electronics)? Our October meeting explores that premise with Dr. Thomas Deuel, of DXARTS at the University of Washington. Dr. Deuel will discuss his brain-music interface: The Encephalophone.

The Encephalophone is a hands-free musical instrument. It uses EEG "brain-wave" measurements to allow users to generate music using only thought control, without movement. It is based on using Brain-Computer Interfaces (BCIs) to harness the electrical brain signals to create music in real-time using conscious "thought" control. It has been experimentally shown to work with reasonable accuracy, and is being used in clinical trials with patients with motor disability caused by stroke, MS, ALS, or spinal cord injury to enable and empower these patients to create music in real-time without needing to move.

Dr. Deuel plans to give a talk and screen video examples of the Encephalophone at work, followed by Q&A. Come and enjoy!

Maybe, just-maybe, a few folks will share a few minutes of their experience at this year's AES Convention....

Thomas A.S. Deuel, MD, PhD

Musician/Sound Artist, Neurologist, and Neuroscientist. He has been a University of Washington Acting Assistant Professor at the UW School of Music's DXARTS (Center for Digital Arts and Experimental Media). He is also Staff Physician/Neurophysiologist for Swedish Hospital, Seattle, WA. He has received several awards and grants for his work, and has given several invited talks on the Encephalophone. Some of his creative works may be found at www.deulingthumbs.com

Student Recording Competition 2017

The purpose of the competition is to engage students in the PNW Section of the AES through a competition in which AES Committee members review students' work and provide thoughtful critique of production technique

of the eligible productions.

There are four categories of work to be critiqued:

- Traditional Acoustic Music (for example, classical music, etc.)
- Traditional Studio Recording (for example rock, hip-hop, etc.)
- Modern Studio Recording and Electronic Music (for example techno, dance, etc.)
- Sound for Visual Media (for example, video game music, etc.)

Participating students from local educational institutions are eligible to enter and be judged. There are three awards per category: Gold, Silver and Bronze. Winners will receive a certificate for their category and their work will be played at the December 2017 AES PNW Section meeting, to be held Thursday, December 7, 2017 at Shoreline Community College. Results of the competition will be included in the December 2017 Section Report to The National AES. There is no fee to enter, limit of one entry per student, please. Collaborative entries may also be entered; they count as an entry by an entity, the same as an individual student.

Complete details can be found at <http://www.aes.org/sections/pnw/src2017/>

Dan Mortensen

AES PNW 2017-2018 Section Chair

***n.b.** The material presented at our meetings is the opinion of the presenter and not necessarily that of the Society. You are encouraged to conduct your own research and to form your own opinions before adopting the presented material as Truth.*

Our meetings are open to anyone interested in Audio. AES membership is NOT required for you to attend our meetings.

Last modified 10/11/2017 0:11:0.