



From : UBC Language Sciences <language.sciences@ubc.ca>
Subject : AMPEL Special Seminar: Dr. Jérémie Voix,, "The Ear Beyond Hearing: From Smart Earplug to In-Brain Computer Interfaces..."
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To : Fund-Reznicek, Ella <ella.fr@ubc.ca>;

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Hello everyone!

Dr. Jérémie Voix ([NCERC-EERS Industrial Research Chair in In-Ear Technologies](#), [Canadian Acoustical Association President](#), and [Language Sciences Initiative Affiliate member](#)) will be giving a special seminar on Monday, December 18th at 3:00 pm, sponsored by the UBC [Advanced Materials Process Engineering Laboratory](#) (AMPEL)! Details below. Check out his talk on Monday, or stay tuned for a more hearing-focused talk in 2018!

Date: Monday, December 18, 2017

Time: 3PM

**Place: AMPEL Room 311
Brimacombe Building
2355 East Mall**

The Ear Beyond Hearing:

From Smart Earplug to In-Ear Brain Computer Interfaces through Nanofiber-Based In-Ear Sensors

Prof. Jérémie Voix, P.Eng., PhD.

École de technologie supérieure

Wearables are everywhere. But not in the ears (yet). The [CRITIAS](#) research team has been actively developing various in-ear technologies designed to complement the human ear, from "smart" hearing protection against industrial noises, to advanced inter-individual communication systems, to hearing health monitoring devices using otoacoustic emission (OAE), to in-ear EEG Brain Computer Interface (BCI). More fundamental research has also been conducted, particularly on the micro-harvesting of electrical power from inside the ear canal to power future auditory wearables. Recent research and developments, from CRITIAS and labs around the world, will be presented to the AMPEL community, including the recent attempts on development of a nanofiber-based piezoelectric sensor for in-ear wearables design.

About Prof. Jérémie Voix, P.Eng., PhD.

Prof. Voix leads the NSERC-EERS Industrial Research Chair in In-Ear Technologies (CRITIAS) for the development of leading-edge technology combining in-ear instrumented hardware platforms with audio signal processing and biosignal extraction algorithms to enable its Canadian industrial partner, EERS Global Technologies Inc., to commercialize in-ear wearables for hearing protection, hearing aid, two-way communication and brain-computer interfaces for industrial, military, consumer and medical markets.

Warm regards,

Ella Fund-Reznicek MA

Coordinator

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