

2021 / 2022 Season

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Evening Presentation Notice

Date: Tuesday, May 24th, 2022
Time: 18:00
Location: École de technologie supérieure,
A-1600, Pavillon A, 1ère Étage
1100, rue Notre-Dame Ouest (angle Peel south)
Montréal (Qc) H3C 1K3
and
Live on our SMPTE Montréal Facebook Page

Organized by: The Montréal SMPTE

Sponsored by: Solotech

Language: French

Subjects: Video encoding and real-time broadcasting

IMPORTANT: This presentation, open to all, will be available **in person** at the ÉTS as well as **live streaming** service on our Facebook page (<https://www.facebook.com/SMPTEMTL/>). **In order to participate to this event weather on site or from home, you must register via [Eventbrite](#).**

Your SMPTE-MTL committee is proud to join the electrical engineering department of the ÉTS, Luc Trudeau and Simon Tremblay to present you an evening on video encoding and real-time broadcasting.

But before we start the evening, faithful to our habit, we invite you to a Happy Hour, from 17:00, to discuss and network and where food and beverages will be offered.

The evening will also be animated on Facebook starting at 17:50 where you will be invited to interact with us and ask your questions...

Evening Schedule:

18:00 – 18:45 Better looking and smaller, thanks to the optimization of video encoding, Luc Trudeau, PhD, researcher in video compression - Presentation in French

The war of the streaming giants continues to raise consumer expectations of video streaming platforms.

How do these giants manage to deliver so much visual quality using so little bandwidth?

This is largely due to the optimization of video encoding.

In this presentation, we will cover 3 key concepts of encoding optimization:

- measures of visual deterioration
- encoding complexity control parameters and multi-pass approaches
- psychovisual optimization

Whether for personal or professional use of a video encoder, the concepts presented will allow you to enhance the quality of your videos while reducing the size of your files.

18:45 – 19:30 Solotech takes a technological turn with its event platform, Simon Tremblay Vice-President Operations, Media and Entertainment Technology, Solotech - Presentation in French

After more than 45 years of services in the event field, Solotech has taken a technological turn with the creation of a new division: Media and Entertainment Technologies.

At the heart of this transformation, a software team and a unique event platform.

In this presentation, Simon Tremblay will discuss how this approach allows Solotech to innovate and bridge face-to-face, telecommuting and the metaverse to connect people wherever they are.

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<https://www.smpte.org/sections/montrealquebec>

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Evening Presentation Notice

Biographies:

Name: Luc Trudeau, PhD
Title: Video Compression Researcher
Bio: Luc Trudeau is a video compression researcher. He is a co-author of AV1, a video format used by YouTube, Netflix, Facebook and many others. He is the author of several patents and papers accepted in leading conferences in this field of research. Luc actively contributes to the development of the dav1d decoder as well as the Eve-AV1 encoder. Luc is a triple graduate of the École de technologie supérieure: bachelor's degree in software engineering 2008, master's degree in information technology 2011 and doctorate in applied research in the field of digital video in 2017. In parallel with his studies, Luc worked on IPTV solutions for Ericsson and taught at the bachelor's and master's level at ÉTS.

Name: Simon Tremblay
Title: Vice-président operations, Médias et technologies du divertissement - Solotech
Bio: After more than 20 years of leadership and entrepreneurship in the field of video games, Simon Tremblay is now dedicated to the development of interactive technologies for the entertainment and corporate markets, thus bridging the gap between the face-to-face and the metaverse.
Companies: Ubisoft, EA, Zandel Media, Tuque Games, Lune Rouge, Solotech
Projects: Assassin's Creed, PY1: Through the Echoes, Madonna Medellin AR show – BBMA 2019

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