SMPTE

Montréal / Québec / Ottawa Chapter

Evening Presentation Notice

Date: **Thursday, November 23rd, 2023**
Time **18:00 to 21:00**
Location: ESMA - École Supérieure des Métiers Artistiques
3536 Boulevard Saint-Laurent
Montréal, Québec
H2X 2V1 (Métro Saint-Laurent or Sherbrooke)
Parking: Several pay parking lots nearby,
Excentris Parking: 7 rue Milton
Exterior parking at 3580 Rue Saint Dominique
Organized by: SMPTE Montréal/Québec et IEEE/BTS Montréal
Sponsored by: SMPTE Montréal/Québec
Language: French / English

Subject: **ATSC**

IMPORTANT: This presentation, open to all and will be available in person only.
Please register via Eventbrite.

For our second evening presentation of the 2023/2024 season, your SMPTE-MTL committee is proud to team-up with Guy Bouchard and IEEE Montreal to present an evening about ATSC.

We are pleased to welcome you to the magnificent ESMA hall, our new partner for the season.

But before we start the evening, faithful to our habit, we invite you to a Happy Hour, from 18:00, to discuss and network and where food and beverages will be offered.

Evening Schedule:

18:00 – 18:30: **Networking**

18:30 - 19:15: **Part 1: A diversified approach to feeding ATSC digital transmitters, Martin Dupras and Guy Bouchard (Presentation in French)**

This presentation is a case study of how to distribute signals to digital transmitters.
Télé-Québec currently uses DVB-S2 satellite technology in C-band, but the latest spectrum assignment negotiations now impose sharing the reception band with 5G public cell phone services.
The latter cause harmful interference to satellite signal reception, in some cases affecting service availability, as in the case of TQ.
This presentation will describe the advantages and prerogatives of implementing this technology in existing infrastructure, the implementation prowess and future prospects.

19:30 - 20:00: **Part 2: Haivision's SRT opensource video transport protocol, Ghislain Collette (Presentation in French)**

Haivision will present details and applications of the Emmy® Award-winning SRT open source video transport protocol, the ideal choice for reliable, high-quality, low-latency streaming of encrypted video.

20:00 – 20:20: **Part 3: Presentation of Humber College's ATSC 3.0 over-the-air/telecom convergence lab, Orest Sushko (Presentation in English and telepresence)**

Humber College, in the western suburbs of Toronto, is the only Canadian educational institution to receive funding to establish a laboratory for the convergence of over-the-air television (ATSC 3.0) and 5G telecommunications.
Orest will describe the projects underway, the infrastructure in place and the opportunities offered by this unique technological initiative.

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Biographies :

Guy Bouchard, Consultant

Now retired, Guy was responsible for digital delivery infrastructure at Télé-Québec until September 2023. During his 33 years at SRC, Guy worked in analog and digital TV transmission and production systems, as well as satellite and terrestrial microwave communications systems.
He is a member of the Board of Directors of the IEEE Broadcast Technology Society AdCom of the ATSC. (Advanced Television System Committee).
Guy's expertise in signal transport, broadcasting and radio frequencies is widely recognized.
He has written and presented papers on DTV, Satellite and MPEG transport technology for NAB, CCBE, IEEE, Canadian Digital Television (CDTV) and the Society of Motion Picture and Television Engineers (SMPTE).

Martin Dupras, network maintenance and implementation, Télé-Québec

To come.

Ghislain Collette, VP Product Management, Haivision

Ghislain has some twenty years' experience in video telecommunications in the broadcast, cable distribution and streaming sectors.
Prior to Haivision, Ghislain was a project engineer at Videotron, designing and coordinating the roll-out of network projects across the province, and was subsequently product manager for video transport products at Miranda Technologies / Miranda Media Networks before helping to launch Haivision.
Ghislain holds a bachelor's degree in electrical engineering from the Université de Sherbrooke.

Orest Sushko, Director – Broadcast-Broadband Convergence B²C Lab, Humber Institute of Technology and Advanced Learning

Orest is a graduate of McMaster University and Toronto Metropolitan University and a Fulbright Specialist. With over 30 years of experience in broadcast/film, post-production, and music in the field of audio engineering and systems design, Orest's work has garnered him an Emmy award, two Emmy nominations, a Cinema Audio Society award and numerous international recognitions.
His interest in applied research has focused on emerging audio technologies, design, and related functionality in mobile SDK applications.
He was involved in leading a research team as a principal developer in formulating a novel audio watermark technology and has been undertaking research with the new ATSC 3.0 terrestrial transmission standard since 2018.
Orest is the visionary and driving force behind the development of Canada's first ATSC 3.0/5G convergence lab.

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