

# Network Technology Seminar

## NTS 2018 – YOUR MEDIA & IT RENDEZVOUS

# PROGRAMME

### TUESDAY 19 JUNE - MODERATED BY PHIL TUDOR (BBC)

08.30 – 09:00 *Registration, tea, coffee, demos & networking*

#### KEYNOTE SESSION

09:00 – 09:15	<b>Welcome to NTS 2018</b>	Hans Hoffmann (EBU T&I)
09:15 – 09:45	<b>IP: Promise, Progress, and the Path to Perfection</b>	Thomas Edwards (Fox)
09:45 – 10:15	<b>The Ethernet Alliance 2018 Ethernet Roadmap</b>	David Law (Chair IEEE 802.3 Eth. Working Group)
10:15 – 10:30	<b>Demo Pitches</b>	
10:30 – 11:00	<i>Tea, Coffee, Demos &amp; Networking</i>	

#### SESSION 1: STANDARDS APPROVED & TESTED

11:00 – 11:30	<b>JT-NM Roadmap Update</b>	Willem Vermost (EBU)
11:30 – 12:00	<b>Elementary Flows: SMPTE 2110 – The Overview!</b>	John Mailhot (Imagine)
12:00 – 12:30	<b>AMWA NMOS IS-04, 05, 06 &amp; activity update</b>	Peter Brightwell (BBC R&D)
12:30 – 13:30	<i>Buffet Lunch, Demos &amp; Networking</i>	

#### SESSION 2: REALITY CHECK

13:30 – 14:00	<b>Audio and the Variety of Control</b>	Jemma Phillips (BBC), Andreas Hildebrand (ALC NetworX), Greg Shay (Telos Alliance), Nicolas Sturmel (Merging Technologies)
14:00 – 14:30	<b>ST2110 and ST2059 Interop Testing and Demonstrations</b>	Jack Douglass (PacketStorm)
14:30 – 15:00	<b>Timing – End-2-End</b>	Andy Rayner (Nevion)
15:00 – 15:30	<b>ARD Audio Contribution Network</b>	Andreas Metz (IRT)
15:30 – 16:00	<i>Tea, Coffee, Demos &amp; Networking</i>	

#### SESSION 3: USE CASES

16:00 – 16:30	<b>New Maison de Radio-Canada update and lessons learned thus far</b>	Felix Poulin (CBC)
16:30 – 17:00	<b>An Update on the Live IP Implementation for the BBC Wales Cardiff Central Square Project</b>	Mark Patrick (BBC)
17:00 – 17:30	<b>METECHNO – The full IP Future of SRF/tpc</b>	Sandro Furter (SRG SSR / tpc switzerland ag)
17:30 – 18:00	<b>TV2 – Bergen and Oslo connected</b>	Tore Storaas & Svein Henning Skaga (TV 2)
18:00 – 20:00	<i>Beers, Bites &amp; Networking</i>	

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### WEDNESDAY 20 JUNE - MODERATED BY MARKUS BERG (IRT)

08.30 – 09:00 *Tea, Coffee, Demos & Networking*

#### TUTORIALS

09:00 – 09:50	Tutorial A – Room Montreux <b>Live IP Software Toolkit</b> Pedro Ferreira (bisect) & Willem Vermost (EBU)	Tutorial B – Room Geneva <b>Basics about All-IP Production</b> Franz Baumann (IRT)
09:50 – 10:00	<i>Tea, Coffee, Demos &amp; Networking</i>	
10:00 – 10:50	Tutorial C – Room Montreux <b>IS-06 Fixes the Network</b> Thomas Edwards (Fox)	Tutorial D – Room Geneva <b>Troubleshooting PTP</b> Yannick Le Dréau (Tektronix)
10:50 – 11:00	<i>Tea, Coffee, Demos &amp; Networking</i>	
11:00 – 11:50	Tutorial E – Room Montreux <b>AES67 Practical</b> Andreas Hildebrand (ALC NetworX)	Tutorial F – Room Geneva <b>The Agile Media Blueprint</b> Richard Cartwright (Streampunk Media Ltd.)
12:00 – 13:30	<i>Seated Lunch</i>	

#### SESSION 4: CLOUD PRODUCTION

13:30 – 14:00	<b>The AMWA Agile Media Blueprint</b>	Brad Gilmer (Gilmer & Associates, Inc.)
14:00 – 14:30	<b>Cloud-fit Production at the BBC</b>	Alex Rawcliffe (BBC R&D) & Stephen Godwin (BBC)
14:30 – 15:00	<b>Media Workflows in the Cloud</b>	Andrew Home (Amazon)
15:00 – 15:30	<i>Tea, Coffee, Demos &amp; Networking</i>	
15:30 – 16:00	<b>Productivity Increase in Live Production through Virtualization</b>	Markus Ostertag (SWR)
16:00 – 16:30	<b>Practicalities of real time audio mixing in the cloud with AES67</b>	Greg Shay (Telos Alliance)

#### SESSION 5: WHAT'S ON THE HORIZON?

16:30 – 17:00	<b>POC Virtualized Infrastructure</b>	Edmond Debar (France TV)
17:00 – 17:30	<b>Network Slicing Opportunities and Experiences</b>	Tomas Granö (Cloudstreet)
17:30 – 17:35	<b>Wrap-Up</b>	Willem Vermost (EBU)

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## DEMONSTRATIONS

### DEMATERIALIZATION TRACK

1	<b>Cerberus Tech Ltd/Open Broadcast Systems Ltd – IP Video Delivery (via Multi-cloud) for Production</b>	Foyer (conference room level)
2	<b>VRT Sandbox/On-Hertz – Dematerializing Radio Studios</b>	Foyer (conference room level)
3	<b>SWR/Cisco/Chyronhego – Templated Remote Production</b>	Foyer (conference room level)
4	<b>Streampunk Media – HTTPS streaming of uncompressed HD video over 10GBASE-T Ethernet</b>	Foyer (conference room level)

### NETWORK TRACK

1	<b>EBU/Bisect – Live IP Software Toolkit</b>	Foyer (conference room level)
2	<b>Calnex Solutions – Title TBA</b>	Foyer (conference room level)
3	<b>PacketStorm Communications Inc – Video over IP Testing</b>	Foyer (conference room level)
4	<b>Skyline Communications – All-IP Monitoring and Orchestration</b>	Moleson (1st floor)
5	<b>Arista – Programmability, Integration and Visibility in Professional Media Networks</b>	Moleson (1st floor)
6	<b>SDNsquare/Axon – A proven IP infrastructure for a large scale Live Sport Events</b>	Moleson (1st floor)
7	<b>Mellanox – P4 controlled Salvo switching, Switch embedded NMOS IS-04/IS-05 Registry &amp; Node</b>	Voiron (1st floor)
8	<b>Stordis – Combined Switching on RTP timestamp and ST 2110-20 Row Number</b>	Courchevel (1st floor)