TTC 2021 Roundtable Session Schedule - June 15 to June 17, 2021

Count	Company Name	Host	Topic	Abstract
Day 1, June 15, 12:15 - 12:45pm (ET)				
1	CatDV	Ryan Servant	Metadata and organizational best practices for tagging your content to reuse and repurpose	Customers have files everywhere. With the pandemic people started to realize they didn't know where their files were, how to get access to those files when outside of their facilities, and even once connected remotely, didn't know how to get them into their editorial workflows. Metadata can be intimidating for someone who hasn't ever had an asset management system, but many don't understand they already have created metadata associated with their files. Spreadsheets, Folder structures, file naming, are all great starting points when building a new asset management system.
2	Dalet	Michael Elhadad	Pretrained AI Models for the Media Industry – Opportunities & Challenges	AI has come back with great fanfare in the past five years, with unexpectedly good performance on tasks such as speech to text, machine translation, face recognition thanks to progress in neural networks and deep learning. Yet, overall, the impact of AI on day to day operation in the media industry has remained modest. In a few domains, early adopters have reaped operational results: automatic caption generation and automatic metadata extraction to enhance media archives are reaching production level quality. The operational cost of deploying AI-based solutions has remained, however, quite high: for most applications, customized AI models must be trained on proprietary data. AI models must be trained on large quantities of carefully annotated datasets, operational procedures must be put in place to ensure the quality of these datasets, complex technological infrastructure is required to update the models as more data is collected to prevent quality drift over time. The overall technological complexity and high maintenance costs explain the poor rate of adoption we have observed. There may be some good news coming out of academic labs though: 2020 has seen the rise of a new paradigm in AI, that of large pre-trained models. The trend has emerged first in NLP applications, with the "transformer architecture" first illustrated by the BERT system and then by OpenAI's GPT-3 system. These models are trained in a new way, called "light supervision" on un-annotated text. The training signal is accumulated over un-imaginably large training datasets (hundreds of billions of sentences). These "pre-trained models" can then be "fine-tuned" with little effort and little data to create downstream application models. This approach has exploded over the past 18 months in NLP yielding uniform progress over all sub-fields (machine translation, summarization, semantic search, text classification, question answering, text generation). In the past 6 months, the same approach has been generalized to vision - and large pre-trained models trained on images are bringing similar benefits to the vision domain: object segmentation, object recognition, visual question answering, automatic captioning). We will illustrate the power of this new technology through provocative examples of few-shot training of pretrained models. We will try to imagine the expected impact of "pre-trained models" for the media industry, analyzing specific use cases (human identity recognition in historical archives, subtitle translation). Finally, we will discuss the key gotchas that are associated to this new trend: risks for responsible AI, bias and harm, defenses against deep fake-content and the way content production processes may be affected even for non-adopters.
3	Humber College	Orest Sushko	Introduction to ATSC 3.0 / Humber Broadcast-Broadband Convergence B²C Lab	ATSC 3.0 is the next generation terrestrial broadcast system designed from the ground up to improve the television viewing experience and offer new datacasting opportunities to broadcasters. It is the only IP-based system of its kind in the world and is also currently world's most efficient one-to-many data delivery system. Nex Gen TV improvements include higher audio and video quality, improved compression efficiency, robust transmission for reception on both fixed and mobile devices, advanced emergency messaging and more accessibility, personalization and interactivity. Datacasting opportunities can have a wide range of applications from autonomous vehicles and smart cities to distance learning, smart agriculture and more. Humber College is leading the way towards the development of Canada's first Broadcast-Broadband Convergence (B2C) Lab to explore multisectoral data delivery applications enabled by ATSC 3.0 The standard runs on an IP backbone and shares a common base clock with 5G networks so it can be easily integrated to improve broadcast mobility and convergence use-cases with 5G delivery. Humber's research will include OTA broadcast and datacast applications across global data delivery standards providing seamless integration with fixed and mobile devices across any content environment. The 3.0 standard and its convergence capabilities with other data delivery networks can play a significant role in shaping how industries beyond broadcasting can be digitally transformed. The B2C Lab will be the first R&D test bed in North America equipped with both an ATSC 3.0 broadcast ecosystem and 5G core network. The core mission of the B2C Lab is to position Humber as a leader in ATSC 3.0 convergence technology research and development, creating services and solutions for industry that will foster the potential of a true heterogenous communications network for data delivery incorporating the best of standards technologies. This roundtable session will present a high-level introduction of the standard as well as an overview of the Humber Broadcast-Broadband Convergence (B2C) Lab development. The discussion will include the benefit of industry partner engagement to explore the 3.0 standard and convergence applications with 5G with the lab.
4	Phabrix	Nick Shaw	3D LUT design and implementation for Single-Stream live HDR production	Q&A Session

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5	Philip Grossman	Philip Grossman	Media Based NAS Storage: "To Cloud or Not to Cloud….Network Attached Storage	Over the past decade the ability to generate content has increased geometrically with the advances in cell phones, action cameras, DSLRs and low-cost high quality cinema cameras. The ever-increasing resolution, color space, framerates and dynamic range has also lead to an increased need for storage. The ability to manage this ever-increasing volume of assets has become more important with many options including spinning disks, SSD, NVME, SAN, NAS, and Cloud storage available to content creators. Join Philip Grossman in a roundtable discussion covering the various on-premise and cloud based storage models available and how to decide what is best for you organization
6	Ross Video	Chris Lennon, Wojtek Tryc, Mike Strein	Microservices in Action	A roundtable discussion of actual uses of microservices in media today. What do microservices mean to your organization? How are you currently using microservices and how will you be using them in the future? How does the reality of the rollout of microservices compare with the vast promise they offer? What kind of role should organizations like the OSA, EBU, SMPTE be playing? Potential discussion leaders: Chris Lennon, Wojtek Tryc (Ross Video), Loic Barbou (Bloomberg), Mike (Disney/ABC)
7	Schubin's Café	Mark Schubin	Some Possible Futures of Motion Imaging	Mark Schubin Keynote - Q & A Session
8	SSIMWAVE	Dr. Hojatollah Yeganeh	Visual Quality Impairments in High Dynamic Range and Wide-Color-Gamut Videos	Q & A Session
9	Telestream	Lakshmanan Gopishankar	Cutting edge measurement tools for HDR workflows	Q & A Session
Day 1, June 15, 2:40 - 3:10pm (ET)				
1	AJA Video Systems	Tim Walker	Around HDR productions and conversion techniques	**TBD**
2	Arista	Ryan Morris	Requirement for Orchestration in Media Workflows	Q & A Session
3	AVID	Sarah Priestnall	Color and trends in color correction	What's the future of the grading bay in 2021? Did COVID forever transform the interaction between clients and colorists? Can AI be used to automate the more mundane tasks of color grading? Does color grading now begin in pre-production? Let's discuss these topics and more.
4	Chromata Solutions	Neal Bilow	NFT (non-fungible token) on Blockchain	NFTs are types of digital assets in a blockchain with completely unique codes, and they can transform digital objects such as music, art, videos, images, and even tweets into assets that can be owned and sold.
5	EBU	Judy Parnall EBU/BBC - Hans Hoffmann EBU	What will be the future of media technology, and do you really want to know?	The evolution of media technology is inevitable and unstoppable, but is it also unknowable? In 2020, an international think tank of representatives of media research and development groups, the EBU Broadcast Technology Futures group, tried to answer that question. They formed conclusions about tomorrow's user experience, production, and delivery to the user – drawing on what is happening in their laboratories. The session will be your chance to hear their conclusions, find where to get their report…and to agree or disagree with their conclusions. The session with be led by Judy Parnall BBC/Chair of the EBU Technical Committee, and Dr Hans Hoffmann, who chairs the Broadcast Technology Futures Group.
6	Fujifilm	Billy Luong	Mirrorless Camera Technology	Learn more about Mirrorless Camera Technologies and their rapid growth into many applications beyond general photography. The discussion will surround the technologies involved in the development of Mirrorless Cameras and their growing applications in both Photography, Videography and the Movie and Television industry. Topics include the development of image sensors, processors, and machine learning development in areas like AF systems and colour reproduction. Join the discussion and learn how Mirrorless Camera Technologies can benefit you and your industry.
7	Lectrosonics	Colin Bernard	Simple automated Wireless Mic /IFB / IEM Frequency selection post UHF RF spectrum repack	Join us for quick session regarding how to plan for plus deploy or change existing frequencies and or RF systems in the Studio or OB post repack, using automated Wireless Frequency Coordination software programs. The session includes a demonstration of a quick set up and deployment of a wireless mic and IFB/IEM system in a studio or in the field.
8	Telestream	Tim MacGregor	How adding API-based workflows to your media supply chain can make you	Q & A Session

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Count	Company Name	Host	Topic	Abstract
Day 2, June 16, 4:15 - 4:45pm (ET)				
1	Bridge Technologies	Simen K. Frostad	Taking IP infrastructures out for a spin	IP packet behaviour analytics is an essential real-time need when dealing with the modern infrastructures capable of transporting uncompressed ST 2110 video and audio. The monitoring and analysis of high-bitrate media traffic, enables broadcast and production teams to continuously survey all transportation layers on an IP network, facilitating quick rectification of potential problems, whilst helping to maximise Quality of Service (QoS).
2	CBC	Anthony P. Kuzub	AES standards update	What's new AND exciting in AES standards - AES 70 Control - AES72 Audio Over Quad Twisted Pairs - AES59 DB25 - AES48 - Grounding and Shielding
3	Direct Out	Claudio Becker-Foss	"The Show Must Go WAN - Remote audio production with AES67" under the subject theme of Remote production projects using AES67 over WAN and public Internet.	Enforced by the pandemic in 2020, the demand for remote production got a big push. Claudio Becker-Foss, CEO / CTO of DirectOut GmbH in Germany, will share some insights on projects that were conducted during the last months. Based on AES67, DirectOut provides remote production technology, which allows to stream uncompressed audio over WAN and even public internet connections. Participants are invited to discuss the possibilities and challenges of today's (remote) production situation and the technical background of AoIP over WAN.
4	Evertz	Mo Goyal	NMOS IS-04/05 in the real world	Q & A Session
5	IABM	Stan Moote	“So what will be the new norm in 2021/2022?”	Stan Moote Keynote - Q & A Session
6	Imagine Communications	Leigh Whitcomb Ryan Morris Gerard Phillips Michael Waidson Mike Overton	How to do PTP/ST 2059 successfully - Ask the PTP experts	If PTP/ST 2059 is done right, it works very well. This requires doing the design, implementation, commissioning, and operations properly. Unfortunately, there are many ways to do it wrong. This roundtable is an opportunity to ask the PTP experts your PTP questions so you can have a successful PTP deployment.
7	Merging Technologies	Nicolas Sturmel	AES67 and ST2110-30 over WAN	Q & A Session
8	NVIDIA	Thomas True	Broadcast ST2110 Directly from your Windows Desktop Application	Q & A Session
9	Ross Video	Chris Lennon, Glenn Reitmeier, Stan Moote	Removing the Blinders: A Holistic View of TV and Cinema Workflows	A roundtable discussion of the increasing interdependence of the various pieces of the media workflow puzzle. We will focus on the importance of considering the entire media supply chain, from production, through post, asset management, distribution, archive, and more. How are you managing this increasingly complex world How do we make sure those in various areas properly consider those who are impacted by decisions they make? Potential discussion leaders: Chris Lennon, Stan Moote (IABM), Glenn Reitmeier, Arjun Ramamurthy, and more.
10	TAG Video Systems	Peter Wharton	Migrating Linear Media Workflows into the Cloud	Whether you’re a technology supplier or a media customer, migrating existing linear workflows to the cloud can be a challenge. Simply understanding this new landscape and its terminology while making existing solutions work in the cloud could seem daunting enough. Yet truly successful migration requires moving past this “lift & shift” mentality and refactoring technology based on an understanding of cloud costs, optimization, and business requirements. We’ll discuss the challenges and pitfalls of cloud migration strategies and discuss ideas to improve the process.
11	Telestream	Gord Langdon	Lessons learned in the transition from SDI to ST 2110	Industry early-adopters have been deploying Professional Media over Managed IP Networks (PMOMIN) for about the last six years. Some projects are simple ST 2022-6 IP playout islands in existing SDI seas. Others are complete facilities with ST 2110 essence media, ST 2059 PTP synchronization and software-defined workflows. Let's discuss some of the high-level lessons that we have learned so far. 1. What are the challenges of IP compared to SDI? 2. What skills and tools do we need to design, build and manage these systems? 3. What are some of the best practices? 4. What new challenges are coming?
Day 2, June 16, 6:40 - 7:10pm (ET)				
1	Arista	Eric Poynton	Tales from the Trenches while Hunting for Threats in Media and Entertainment	Q & A Session
2	Blackmagic Design	Bob Caniglia	Conquering Zoom: How to Look Good and Sound Better in a Virtual Environment	Now that virtual meetings and presentations have become permanent fixtures in professional environments, let’s explore some easy and affordable ways to look and sound better on these calls. The higher the video and audio quality are, the more effective you and your communications become in the virtual world.
3	Caton Technology	Michael Sugiura Rofe	“Where is the Edge?”	**Missing**
4	CBC	Anthony P. Kuzub	Networked Wireless Microphones and In ear Monitors	The hidden complexities of delay in fold back systems - Where can one go when breaking down individual object models of audio systems...

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6	Imagine Communications	Leigh Whitcomb Eric Poynton	Securing SMPTE ST 2110 Systems	Securing SMPTE ST 2110 systems is becoming an important issue since it adds new ways that your facility can be attacked. For example, an attacker could disable your SMPTE ST 2059/Precision Time Protocol (PTP) infrastructure, crippling your facility. Tackling security may seem like a daunting challenge. Many users and equipment vendors do not know where to start. Coming learn and discuss practical information on securing your ST 2110 systems. Eric Poynton, Systems Engineer for Awake, the NDR security division of Arista, will share real-world experiences from threat hunting in one of the world's largest media and entertainment corporations. Leigh Whitcomb, Architect, Imagine Communications will share information from his 2021 April SMPTE Journal article "A Practical Guide to Securing SMPTE ST 2110 Systems and What Standards Organizations Are Doing to Help" https://ieeexplore.ieee.org/document/9395676
7	LiveU	Mark Moore	The new reality of Live Production.	With the changing landscape of how content is being consumed, whether it be due to changing business models, technology, demand for new viewing experiences, a well as the Global Pandemic, how have your day-to-day workflows been impacted ? This round table discussion hosted by LiveU along with some production professionals will focus on live events – best practices, new workflows and new solutions especially as we prepare to put COVID in the rearview mirror.
8	Matrox	Jean Lapierre	IPMX Makes Network Easy	Q & A Session
9	Media Kind	Tony Jones	Machine Learning for Up-Conversion	Q & A Session

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10	RPAS Centre	Michael J Martin	Drone Photography	The technological advancements in drones has evolved rapidly and as the sophistication develops with greater range, better quality, safer flight characteristics, and ease of use, these camera platforms can be used by anyone for capturing stunning still images and compelling B-roll for corporate media, industrial productions, science and big data gathering, television news, episodic productions, and feature films. Yet, there are still so many issues that must be addressed before you can pilot your Remotely Piloted Aircraft System or RPAS. Transport Canada and various policing organizations are now extra diligent to protect the public and Canadian airspace from unqualified operators. New laws dictate a far more professional approach to operating drones commercially in Canada. As a creative tool, RPAS offer stunning images and unique perspectives for SMPTE members to record new footage for integration into their storytelling. In this topic, we will briefly discuss: • Creative Aspects • Technical Aspects • Still Imagery • Video Recording • Resolution • Colourimetry • Drones • Cameras • Transport Canada Licencing
11	TAG Video Systems	Roy Folkman	Can a hardware company become a software company?	There is an obvious and unstoppable movement from dedicated hardware solutions to software solutions in our industry. This round table will explore the ever-growing capability of software to provide solutions for media facilities. Also, the challenge facing hardware companies as they work to transform themselves to software companies will be discussed. Radio facilities executed this migration from hardware solutions to software solutions some time ago. What can Television facilities learn from that migration? How does this migration affect the vendor landscape? In addition, the traits of hardware companies vs software companies in the larger technology space will be presented and examined.

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Day 3, June 17, 12:15 - 12:45pm (ET)				
1	AJA	Tim Walker	Getting the most out of your HDR production	Q & A Session
2	Amazon Web Services	Jamie Duemo	Total Technological Transformation: Maximizing on the Disruption	Jamie Duemo Keynote - Q & A Session
3	ARRI Canada	Francois Gauthier	Remote Production during COVID	Throughout the COVID-19 pandemic, many productions were put on hiatus. Implementation of IP monitoring and control has helped overcome the trend and made it possible to return productions safely and efficiently to air. In this roundtables we will show a live demo of how production crews can control cameras, lights, movement, and other aspects to bring back the production value, even when being isolated from the talent.
4	Dalet	Mathieu Zarouk	The deployment conundrum: cloud or on-premises – why not both?	Q & A Session
5	EBU	Willem Vermost. Pavlo Kondratenko, Ievgen Kostiukevych	ST 2110 PICS and RP 2110-25	Abstract: This technical round table will feature Willem Vermost, the RP 2110-25 document editor, Pavlo Kondratenko, the ST 2110 PICS document editor, and Ievgen Kostiukevych, the JT-NM Tested program coordinator. They will discuss how the industry and the users will benefit from the publication of RP 2110-25, and ST 2110 PICS, from the adoption of these documents by the JT-NM Tested program, and from the inclusion of these new and improved testing methodologies by the open-source test and measurement tools.
6	F2 Technologies	Ken MacNeal, Capsule Media. Jim Morrison, Rogers Sports & Media. Moderator: Jeff Simpson	The Future of the Cloud: Where we were, where we are, and where we're going.	The NAB Show of 2019 felt like the coming out party for "the cloud", with AWS leading the charge. Cloud platforms seemed poised to be all things to all applications. But in the time since then we have seen competition, specialization, and new threats to infrastructure and networks. If technology maintains its better, faster, cheape trajectory, what does that mean for the future of the cloud as we know it today? Will it allow niche players to thrive? Or will only the strong survive? Will we build our own "clouds" using open source code and COTS hardware? Could a swing back to on-prem be in the works?
7	Imagine Communications	Gareth Wills and Michael Rebel	Cloud agility: Launch new broadcast channels at the click of a button – fact or fiction?	Faster time to market. Demand-driven scaling. The cloud promises true agility, but does it sound too good to be true? Join Imagine's Gareth Wills and Michael Rebel a they share from-the-field experiences of cloud playout deployments, and watch live as they spin up a Versio hosted in AWS service in just 15 minutes!
8	Janet West	Janet West	Environmental impact of data centres	With streaming content being the norm for many consumers, who is responsible for the real environmental impact of data centres and what measures will our industry have to take to achieve climate goals. In Glasgow on 1st – 12th November 2021, the UK will host the 26th UN Climate Change Conference of the Parties (COP26). The COP26 summit will bring parties together from all over the world to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change. A total of 197 parties from developed countries as well as least developed and vulnerable groups in addition OPEC, OECD, IEA, WHO and UNEP. We no longer talk about climate change, we see it everyday with fires, flooding and soil depletion affecting crops. The 2020 IPCC report has shown that there is a significance difference between a global temperature increase of 1.5 versus 2 degrees. It is recommended a global 'net zero' emissions target by 2050 be achieved. All this at a time when we have become addicted to our phones regarding social media. Storage companies are building enormous data centres which are energy hungry and struggling to keep up with the demand. A single popular viral video watched on a variety of devices has been calculated to use 358GWh of power. The average consumer only equates the energy cost to the power required to charge their device and not the plethora of spinning discs allowing instant content access. In addition, the materials that are required for a data centre need to be sustainably procured. Do we know where they come from, how long will they last, is there in fac a choice? Do we know the true environmental cost of data centres? This session aims to stimulate the television and motion picture industry (strategy developers, supply chains, users and creatives) to think differently about how we do business and start to develop some key action plans for the future. Quote from Milton Friedman 1982 "There is an enormous inertia a tyranny of the status quo in private and in governmental arrangements. Only a crisis, real or perceived produces real change. When that crisis occurs, the actions that are taken depend on the ideas that are lying around. That I believe, is our basic function: to develop alternatives to existing policies, to keep them alive and available until the politically impossible become politically inevitable."

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9	Mobile TV Group	Mark Chiolis	Developing, Implementing, and Benefiting from New Live Production Workflows and Solutions Following the Pandemic	When the pandemic hit early in 2020 it shut down almost every live sporting, awards, esports, corporate, concert, and entertainment event literally overnight. Over the next few weeks and months a lot of really smart people came together for the good of the entire industry to get productions restarted under conditions never experienced before around the globe. Competitors became partners and worked closely together, with content creators, to assure safe productions could get restarted. The innovative technology and new workflow solutions that have emerged are changing the face of the production industry forever. This roundtable is designed to discuss some of those new technologies and workflows, how they will affect the future of live production and challenges that have arisen implementing the new workflows and how some productions, not only got restarted during the pandemic but, are thriving and better than they were before the pandemic.
10	SMPTE / HPA	Kari Grubin, HPA and Renard Jenkins, SMPTE	Commitment to Action	Come and join SMPTE and HPA! We want to invite you to participate in an open discussion about the work that we are doing regarding equity and inclusion in the media, entertainment and technology space. We will provide an overview of the recent HPA ALL IN event. We will also update you on the upcoming activities of the SMPTE Global Inclusion Working Group. We will share with you how you can be involved and help us launch more successful initiatives in 2021. We have so much to share so we look forward to seeing you soon.
Day 3, June 17, 2:40 - 3:10pm (ET)				
1	Arista	Albert Faust	Post Pandemic Workflow - Now what?!	The pandemic has rapidly distributed Media workflow and infrastructure. This is not a bad thing! but let's talk about the implications of this change. How do we make sure content continues to be delivered in a reliable, cost effective way? How will we manage and monitor infrastructure that may no longer be under direct corporate control? and what about security? Join Arista in a round table discussion looking at these issues in the potential post pandemic new distributed 'normal'.
2	ARRI Canada	Francois Gauthier	Mixed Reality Production Systems (MRPS)	ARRI's Mixed Reality Production systems (MRPS) describes a mix of traditional, green screen, AR, and VR scripted production. Through an ecosystem of cameras, lenses, lights, stabilizer, and wireless controls, ARRI offers solutions, training, and integration to help productions transition to an in-camera composition. In this roundtable, we will discuss the various aspects of MRPS, including capture devices, lighting, metadata, tracking, artifacts, and digital asset creation.
3	CloudFirst.io	Brian Campanotti	Is Data Tape Dead	As we move into this new era of "remote" everything, has the time finally come to start to think about the death of complex, on-premise data tape archive systems we have learned to love (or hate)? We have experienced several watershed moments in recent years which could signify a trend away from this long-proven way of storing and protecting our most valuable media assets, but are media organizations ready to break away from these historically proven and hardened systems? Can we refocus our attention on Service Level Agreements (SLAs) rather than the features, pros and cons of particular storage technologies when architecting our next-generation digital archive systems? Can a potential move to the cloud achieve all of our content protection, preservation and accessibility challenges in a cost-effective fashion?
4	Lighting Video	Brad Dickson	Using the camera's chroma signal to evaluate and calibrate LED lighting and video walls to meet the needs of broadcast and cinema cameras.	Q & A Session
5	Matrix Video	Tom Bradbury, Eric Heidendahl, Richard Grunberg, Clint Hollinger, Peter Slisarenko, Julian Fraser	Discussion on the state of broadcast engineering programs in Canada	What we're thinking is moderating a panel that discusses the state of broadcast engineering programs in Canada or lack there of. Panel would consist of educators past and current that are involved in the broadcast industry.
6	MediaKind	Tony Howard	What do you think it will take to be a broadcaster in the future?	The industry is rapidly migrating to new media delivery mechanisms and how content is processed and consumed. We will consider some of these factors such as: - Support of cloud-based delivery – fully deployed cloud based workflow from production, editing, MCR, playout, on-demand and live (does anybody remember Linear TV?) - End-to-end Streaming capability with low latency delivery and regional program insertion / advertising insertion - Direct To Consumer Programming - Event Driven Programming - Influence of Social Media on Live Events - Up conversion of older content to new formats
7	Ross Video	Maxyme Paiement	Extended reality and the use of LED walls as a replacement for the green screen.	Q & A Session

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8	Sony	Morais Russell Patrick Chan	Sony Alpha – Mirrorless Cameras	The ethos behind the BeAlpha branding, and the associated creative tools and technology comprised of the “Alpha Mount” or One Mount system.
9	TAG Video Systems	Peter Wharton	Leveraging Cloud Scalability	When we move to the cloud, we often look to replicate existing workflows that media companies shave developed over decades, workflows based on the technologies that were available at that time the workflows were implemented. Cloud offers us a chance to reimagine media workflows from the ground up, reinventing these processes and leveraging the immense compute and scale capabilities of the cloud. What might such reimagined workflows look like? We’ll discuss some innovative approaches to live production, post-production and playout that leverage the unique capabilities of the cloud.
10	TAG VS	Paul Briscoe	This presentation is a 101-level introduction to OTT.	Q & A Session
11	Tesla Onwers Club of Ontario & Waterloo Region Electric Vehicle Association	Ilya Doronin	Lithium-ion batteries, connected Electric Vehicles, Autonomous Driving	How to extend the longevity of Li-Ion battery in any gadget, including gadgets on 4 wheels. Electrical vehicles discussions and comparison, Robo-Taxis, Autonomous driving, Tesla Full Self Driving Beta version 9 & full version release schedule."