

July 30th (Tuesday)

Encoding	8:20 AM	Ali C. Begen	Comcast	Workshop Purpose, Ground Rules and Agenda Overview
	8:30 AM	Yuriy Reznik	Brightcove	Optimizing Multi-Codec Streaming Delivery
	9:00 AM	Dan Grois	Comcast	Deep Neural Networks for Video Coding
	9:30 AM	To be announced		VVC Updates
	10:00 AM	Nathan Egge	Mozilla	AV1: One Year Later
	10:30 AM	Praveen Kumar Karadugattu	MulticoreWare	Improvements in x265 Encoder
10:40 AM	Mickael Raulet	ATEME	Content-Aware Encoding for Next-Gen Content	

Break (20 mins)

Ingest and Quality	11:10 AM	Rufael Mekuria	Unified Streaming	Specification of Live Media Ingest
	11:40 AM	Zhi Li	Netflix	VMAF: the Journey Continues
	12:10 PM	Sebastiaan Van Leuven	Twitter	Accurately Measuring the Perceived Video Quality on Mobile Devices
	12:20 PM	Zhou Wang	SSIMWave	Challenges in High-Quality HDR Content Distribution

Lunch (60 mins) including Welcome Remarks (Timojhen Mark, Comcast, 15 mins)

Transport	1:30 PM	Ian Swett	Google	From gQUIC to IETF QUIC and Beyond
	2:00 PM	Jeff Van Dyke	Akamai	Key Technical Challenges for Multicast-Assisted ABR Video Delivery Systems
	2:30 PM	Barry Owen	Wowza Media Systems	SRT Technical Discussion
	3:00 PM	Can Bal	Twitter	Broadcasting WebRTC Group Chats

Break (20 mins)

Distribution	3:30 PM	Steve Miller Jones	Limelight Networks	It is Time for OTT Services to Move to the Edge
	4:00 PM	Pierre-Louis Théron	Streamroot	P2P & Multisourcing: Delivering High-Quality Streaming at Scale
	4:30 PM	Itay Kinnrot	Kaltura	Last-Mile Video Optimization
	5:00 PM	Chris Lennon	MediAnswers	Microservices and Media: Are We There Yet?
	5:30 PM	Thierry Fautier	Harmonic	How Live OTT Services can Match the Quality of Broadcast

Happy Hour (6-8pm)

July 31st (Wednesday)

Low Latency and Scaling	8:30 AM	Mark Kalman	Twitter	LHLS Media Streaming at Twitter
	9:00 AM	Moderator: Alex Giladi (Comcast)	Panelists: Tim Dougherty (Wowza), Will Law (Akamai), Ali C. Begen (Comcast) and Paul MacDougall (Bitmovin)	Low Latency: Encoding, Delivery and Players
	9:50 AM	Yuriy Reznik	Brightcove	Mass-Scale, Fault Tolerant OTT Delivery of Live Content

Break (30 mins)

Players and Analytics	10:30 AM	Phil Cluff	Mux	The Evolution of Video APIs
	11:00 AM	Will Law	Akamai	Player Optimizations
	11:30 AM	Andrey Pozdnyakov	Elecard	Major Metrics and Key Indicators of Faults and Malfunctions in Linear Broadcasting
	12:00 PM	Michael Skariah	Datazoom	Building a Flexible Data Infrastructure for Streaming Video

Lunch (60 mins)

Ads	1:30 PM	Srial Weera	Charter	Machine Learning Applications in the MVPD Space: Digital Video Advertising
	2:00 PM	Rohit Wagle	Google	Google Ad Manager SSAI for DASH
	2:30 PM	Rosaiah Jujuru	Charter	Case Study on Blackout Implementation Using SCTE-224
	2:40 PM	Phil Cluff	Mux	The Future of SSAI on OTT Devices

Break (20 mins)

Deployment Experiences	3:10 PM	Krystal Mejia	CBS Interactive	Engineering a Live Streaming Workflow for Super Bowl 53
	3:40 PM	Zachary Cava	Hulu	Scaling Live OTT with DASH
	4:10 PM	Rob Taylor	Comcast	Challenges with Closed Captioning for an MSO
	4:20 PM	Gabriele Ubertini	Sky	VoD2live: How We can Be Efficient in Mixing VoD and Live Streaming
	4:30 PM	Steve Heffeman	Mux	A Standard for Video QoE Metrics
	4:40 PM	Jonathan Friend	Friend MTS	Security Threats and Real-World Attacks
4:50 PM	Michael Childers	Lufthansa Systems	How Airlines are Embracing Content Industry Ecosystems in Inflight Entertainment	

DASH and HLS	5:00 PM	Iraj Sodagar	Tencent	DASH Updates
	5:30 PM	Josh Tidsbury	Apple	HLS Updates (This talk will not be recorded)
	6:00 PM	Alex Giladi	Comcast	Closing

Demuxed Happy Hour (6-8pm)