

mhv/2018 AGENDA

Larimer Social (1427 Larimer Street, Denver, CO 80202)
<http://mile-high.video>

July 31st

August 1st

9am: Tutorial I

- **Video Encoding and HEVC**
Dan Grois, Principal Researcher, Comcast

10am: Break

10:10am: New Codecs

- **Into the Depths: The Technical Details behind AV1 (30')**
Nathan Egge, Video Codec Engineer, Mozilla
- **AV1 vs. HEVC: Perceptual Evaluation of Video Encoders (20')**
Zhou Wang, Chief Science Officer, SSIMWAVE Inc. and Professor, University of Waterloo
- **Codec Comparison from TCO and Compression Efficiency Perspective (20')**
Thierry Fautier, VP of Video Strategy, Harmonic
- **VVC – The Next-Generation Video Standard of the Joint Video Experts Team (30')**
Gary Sullivan, JVET Co-Chair

11:50am: Lunch

12:50pm: Video Encoding

- **Pushing Encoding Quality and Speed with x265 (30')**
Kalyan Goswami, Video Architect, MulticoreWare
- **Massively Parallel Encoding (30')**
Alex Giladi, Distinguished Architect, Comcast
- **Video Coding and Delivery at Scale (30')**
Yuriy Reznik, Fellow, Brightcove
- **Video Quality-of-Experience Assessment (20')**
Zhou Wang, Chief Science Officer, SSIMWAVE Inc. and Professor, University of Waterloo

2:40pm: Break

3pm: HDR

- **HDR10+ Ecosystem Update (20')**
Bill Mandell, VP Industry Relations, Samsung Research America
- **Dolby Vision: Production, Distribution and Display (20')**
Walt Husak, Director of Imaging Technologies, Dolby

3:40pm: Container Formats

- **An Overview of the ISO Base Media File Format (30')**
Thomas Stockhammer, Director Technical Standards, Qualcomm
- **What is Happening with IMF? The File Format, not the Int. Monetary Fund (30')**
Annie Chang, VP of Creative Technologies, NBC Universal

4:40pm: Audio

- **Production and Delivery of Next Generation Audio with MPEG-H (30')**
Nils Peters, Sr. Staff Engineer / Manager, Qualcomm
- **Coding and System Approaches for Next-Generation Audio (30')**
Mike Ward, Director of Consumer Entertainment Technology, Dolby

5:40pm: Networking Reception

Sponsored by Comcast

9am: Tutorial II

- **Algorithms and Formats for Adaptive Streaming**
Ali C. Begen, Technical Consultant, Comcast

10am: Break

10:20am: Streaming Formats

- **DASH and CMAF: The Standards' Update (20')**
Iraj Sodagar, MPEG DASH/CMAF Chair
- **Advances in HTTP Live Streaming (20 min)**
Josh Tidsbury, Media Technologies Evangelist, Apple

11am: Low-Latency Streaming

- **Low-Latency Live Streaming At Scale (20')**
Yueshi Shen, Principal Research Engineer, Twitch
- **Interoperability for Linear Internet TV Services (20')**
Thomas Stockhammer, Director Technical Standards, Qualcomm
- **Delivering Ultra Low-Latency Live Streaming with DASH and CMAF (20')**
Alec Henthorne, Solutions Architect, CastLabs

12pm: Lunch

1pm: Transport and Delivery

- **HTML5 and Video (20')**
Mark Vickers, VP of Software Architecture, Comcast
- **Making Video Streams QUIC'er (20')**
Miroslav Ponec, Engineering Director, Protocol Optimization, Media and Carrier Division, Akamai Technologies
- **A Look at the ROUTE Forward (20')**
Mike Luby, VP of Technology, Qualcomm
- **mABR: Deliver OTT to the Main Screen with the Same Efficiency as Broadcast (20')**
Jeremy Desmuts, Product Manager, Broadpeak

2:20pm: Break

2:40pm: Open-Source Players

- **dash.js Reference Player and QoE Metrics for Adaptive Streaming (20')**
Will Law, Chief Media Architect, Akamai
- **The Shaka Player (20')**
Joey Parrish, Google

3:20pm: Advanced Advertising

- **ESNI, ESAM and SCTE 35 in Adaptive Streaming (20')**
David Agranoff, Principal Engineer, Charter Communications
- **Deploying Dynamic Ad Insertion with DASH, a Broadcasters Architecture (20 min)**
Matt Poole, Head of Online Architecture, ITV

4pm: Content Protection

- **Content Protection in MPEG DASH (20')**
Andrew Popov, CTO, BuyDRM
- **ATSC 3.0 Content Protection (20')**
Glenn Reitmeier, SVP of Technology Strategy and Policy, NBC Universal
- **Forensic Watermarking (20')**
Joe Daniel, Sr. Solutions Architect, Nagra

5pm: End