## BBC R&D Technical Papers & Presentations

### Friday 9th September

**Future-proofing Live IP:** an emerging roadmap towards an industry architecture  
Presenter: Peter Brightwell BBC, Lead R&D Engineer  
**Time:** 12:00 to 13:30  
**Where:** Emerald Room

**Speaker Sessions BBC People Industry Support for Interoperability:**  
All pulling in the same direction  
Presenter: Alex Rawcliffe, Project R&D Engineer  
**Time:** 12:30pm  
**Where:** Technology in Action Theatre

**Title: Update on Advanced Media Workflow Association (AMWA) Incubator**  
Presenter: Peter Brightwell, Lead R&D Engineer  
**Time:** 16:00  
**Where:** EBU stand

## Saturday 10th September

**Automatic recovery and verification of subtitles for large collections of video clips**  
Presenter: Mike Armstrong, Senior R&D Engineer  
**Time:** 8:45 to 10:15 am  
**Where:** Emerald Room

**Creating object-based experiences in the real world**  
Presenter: Michael Evans, UX Research Lead R&D  
**Time:** 1pm  
**Where:** Emerald Room

**Directing attention in 360-degree video**  
Presenter: Alia Sheikh, Senior Development Producer  
**Time:** 10:45  
**Where:** Emerald Room

**The Future is Now**  
Presenter: Si Lumb, Senior Product Manager BBC Connected Studio  
**Time:** 16:30 to 18:00  
**Where:** G102/3

**Networked Media Incubator Project: One Year On**  
Presenter: Peter Brightwell, Lead R&D Engineer  
Brad Gilmer, Executive Director AMWA  
**Time:** 12.00pm  
**Where:** 3.B22

**Image Adaption Requirements for High Dynamic Range Video under Reference and Non-reference Viewing Conditions**  
Authors: Manish Pindoria and Simon Thompson.  
Status: Not to be presented, but to be published as part of Technical Conference.

## Sunday 11th September

**Speaker Sessions BBC People What do audiences really want? The truth about changing TV consumption**  
Presenter: David Bunker, Head of Audiences  
**Time:** 9.45-11am  
**Where:** The Forum

**The open-source Turing codec: towards fast, flexible and parallel HEVC encoding**  
Presenter: Saverio Blasi, Senior Research Engineer  
**Time:** 8:30-10am  
**Where:** Emerald Room
BBC R&D Contributions on Partner Stands

On continuous demonstration

EBU Stand:
Hall 10 - Stand 10.F20

The IP Studio team will contribute to "end-to-end IP" demo on EBU stand, live capture system with AMWA Incubator partners, sending live and not-so-live content from our store to downstream IP distribution and personalisation systems from other EBU partners.

Also on the EBU stand the BBC R&D team will be providing encoded content for demonstration of UHD1 phase 2 (i.e. 3840x2160p100 ITU-R BT.2100 Table 5 Video) for delivery via DVB-T2 and DVB-DASH.

Cross Platform Authentication demonstration

The demonstration will showcase a personalised news channel produced by a Live IP Studio. The user will be able to skip the live content and access a custom playlist of content created by the EBU Recommendation System. User Authentication will be managed using CPA.

IBC Future Zone

Storyarc and Story Explorer
Putting BBC drama on the web using story data.

Interactive poster session

CODAM Collaborative Project
Hall 8 - Stand 8.F26

CODAM is a collaborative project funded by Innovate UK in the area of video fingerprinting and visual search. R&D’s partners in the project are Visual Atoms and the University of Surrey. The project aims to deliver a software solution to track and identify footage in very large video archives. This could be of significant help to broadcasters who quickly need to find a piece of footage for legal reasons, or for programme makers who want to find shots of a particular object or scene.

BBC R&D developed the video fingerprinting system aspect of the project, while the University of Surrey and Visual Atoms developed the visual search component. Visual Atoms will be demonstrating a system prototype on TIE Kinetix’s stand in the Future Zone.