



**AES Conference on New Directions in High Resolution Audio**  
**June 25<sup>th</sup>-27<sup>th</sup>, 2007**  
**London, UK**

## Call For Papers

The 31<sup>st</sup> International Audio Engineering Society Conference, entitled New Directions in High Resolution Audio, will be held at Queen Mary, University of London, from June 25<sup>th</sup>-27<sup>th</sup>, 2007.

This Conference is concerned with the *promotion and delivery of high resolution audio, by maintaining quality throughout the recording and playback chain with current and future technologies*. It reflects the tremendous recent growth of high resolution audio techniques and products intended for use throughout the audio recording and playback chain. However, issues remain on how to avoid bottlenecks where quality is compromised, and how to maintain and encourage high resolution audio in an everchanging marketplace. These concerns are of interest to the audio engineering, recording and production industries, as well as to education and academia. We aim to provide a place for the exchange of news, issues and results, by bringing together researchers, developers, educators, students and professional users, working in fields that contribute to high resolution audio, to present original theoretical or practical work. It also serves as a discussion forum, provides introductory and in-depth information in specific domains, and showcases current products.

The 31<sup>st</sup> AES Conference solicits contributions to the field of high resolution audio, including, but not limited to, the following domains and topics:

### High resolution **recording** issues

- Bandwidth, sampling rate, dynamic resolution and spatial representation.
- Analog and digital recording equipment

### **Processing**, manipulation and preparation of high resolution signals

- High quality analog design
- A/D and D/A conversion
- Format and sample rate interconversions
- High-resolution signal processing, 1 to n bit paradigms
- Spatial audio, virtual and acoustic spaces, virtual image manipulation

### **Storage** of high resolution audio

- Current and future storage technology for high-density audio data
- Overview of high resolution consumer formats
- Copy protection
- Access speed, data reliability, bit packing and compression
- Professional archival formats and future-proofing

### Electronic **delivery** of high resolution audio

- Network (wired and wireless) systems/delivery of high quality audio content
- Current and future formats for streaming and file delivery of high resolution audio
- Bandwidth
- Digital radio and broadcast applications including multichannel audio

### Maintaining quality at **playback**

- Evolving technology for multiformat players
- PC-based playback: configuration and interfacing
- Converter technologies
- Jitter/interface/power supplies and other related forms of noise
- Digital amplification e.g., Class-D amplifiers

### **Perception**

- Perceptual modeling.
- Objective evaluation and subjective performance of high-resolution audio
- Objective measurement and resolution issues
- Subjective procedures and evaluation psycholog

### **Paper and Poster**

Paper and poster proposals should consist of an Abstract (60-120 words) followed by a Precis of (500-750) which can be submitted through the AES online system at: <http://submissions.miraed.com/aes31/login.asp>

### **Submissions, which will be peer-reviewed, may be in the following categories:**

- paper (to be presented in the main sessions)
- poster or demonstration (to be presented in the poster sessions)
- original composition demonstrating features of high resolution audio (to be showcased throughout the conference)
- tutorial, panel or workshop proposals

Accepted authors will be notified by **23rd of March 2007**. Full papers of a maximum of 10 pages (3000 words) should be submitted by 20th of April for publication in the proceedings. (Template will be provided). All accepted paper will be published in the proceedings.

### **Tutorial, panel and workshop proposals**

Proposals should include a title, an abstract, a session chair and a list of possible contributors. Please email all proposals to: [31st\\_sessions@aes.org](mailto:31st_sessions@aes.org)

### **Deadlines:**

Deadline for submissions of tutorial, panel and workshop abstracts: *Feb. 2nd 2007*.

Deadline for submissions of abstracts and precis for papers and posters/demos: *Feb. 2nd 2007*.

Deadline for exhibitor space: *June 1st 2007*. Please see the conference website for more information:

<http://www.aes.org/events/31/>

