

July 18, 2011



# TV TechCheck



The Weekly NAB Newsletter for Television Broadcast Engineers

## Proposals Now Being Accepted for 2012 NAB Broadcast Engineering Conference



Las Vegas Convention Center, Las Vegas, Nevada USA  
Conferences April 14 – 19, 2012 // Exhibits April 16 – 19, 2012

The 2012 NAB Show will host the 66th NAB Broadcast Engineering Conference. This world-class conference addresses the most recent developments in broadcast technology and focuses on the opportunities and challenges that face broadcast engineering professionals around the world. Each year hundreds of broadcast professionals attend the conference. They include practicing broadcast engineers and technicians, engineering consultants, contract engineers, broadcast equipment manufacturers, distributors, R&D engineers plus anyone specifically interested in the latest broadcast technologies.

If you feel qualified to speak at the NAB Broadcast Engineering Conference, we invite you to [submit](#) a technical paper proposal. Not all acceptable submissions can be included in the conference, due to the large number of submissions that are received and the limited number of available time slots. The deadline for submitting your proposal is October 21.

Your proposal should explain precisely what conference attendees can be expected to learn from your paper. Proposals promoting company products or services will not be accepted. NAB strongly encourages that those accepted to make presentations also submit a written technical paper. However, proposals explaining the underlying technologies used in broadcast products or services will be acceptable. If your proposal is accepted, you will have until January 20, 2012 to submit your completed paper to us. After a successful review, your paper will be published in the *NAB Broadcast Engineering Conference Proceedings* and you will receive a complimentary copy of the Proceedings CD. The yearly proceedings is a compendium of these technical papers, and an important archive of the leading edge of broadcast engineering issues.

We will consider topics related to broadcast engineering, such as:

### Television Engineering

- Data Broadcasting Technologies and Applications
- Metadata Management
- Television Transmission Systems and Maintenance
- Portable/Mobile Device Transmission and Reception
- Storage and Networking
- Automation Systems
- Production and Post
- Archival Technologies
- Test and Measurement Techniques
- Television Receiver Developments
- Design and Building Studio and Transmission Facilities
- Security and Emergency Preparedness
- Recording Technology
- Master Control and Playout Systems
- Interference Concerns
- Recording Technology
- Advanced Compression
- Television Standards Work
- Newsgathering and Field Production
- 8VSB Enhancements

- Systems Integration
- Broadband Technologies
- Camera Technology
- Film Transfer
- Set-top Box Technology
- Media Asset Management
- Optimizing RF Coverage

- Transmitter and Antenna Technologies
- Broadcast Technical Standards
- Remote Systems Control
- Digital Television Developments Around the World
- DTV Conversion - Translators and LPTV

### **Operational Efficiencies for Television**

- Optimizing news gathering
- Centralization of operations

- Modern production techniques
- Market resource-sharing

### **Implementing Mobile TV**

- Multiple transmitters for mobile
- Content distribution for mobile
- Transmitting antenna polarization

- Using translators
- Audio processing for mobile television
- Improving mobile reception

### **The Future of Broadcasting: Radio and Television**

- International perspectives
- Future display technologies
- Smart television technologies
- Internet-enabled radio and television
- The evolution of broadcast engineering
- 3D TV

- Smart radio technologies
- Receive antenna developments for radio and television
- The impact of innovative technologies
- The impact of consumer devices on the broadcast industry

### **TV Loudness and Lipsync**

- Solutions

- Implementation Challenges

### **Video Format Conversions**

- Working with anything they throw at you

- Hardware and software solutions

### **Translators and Repeaters for DTV**

- Planning and implementation

### **Metadata Essentials for Broadcast and Archiving**

- Case studies (vendors, integrators, etc.)

### **Mission-Critical IT for Broadcast**

- Networking in the modern broadcast facility
- Keeping the facility running 24/7

- What broadcast engineers need to know about IT
- Test and measurement techniques

### **Green Technology**

- Building facilities and LEED

- Green power options

- Impact on personnel
- Upgrading existing facilities

- Projected savings and payback
- Transmission systems efficiencies

### Emergency Operations - Planning and Implementation

- The emergency plan
- Hardening the facility
- Alternate STL considerations

- Designing for recovery
- Disaster recovery case studies
- Pull the plug test to ensure reliability

### Implementing Regulatory Issues for Engineers

- Emergency Alert System
- Spectrum matters
- Accessibility regulations for television
- Audible crawls

- Broadcast Auxiliary Service
- Wireless microphone operation
- Descriptive video service
- Accessible Web content

The NAB Broadcast Engineering Conference is a highly technical conference where presenters deliver technical papers ranging over a variety of topics relevant to the broadcast and allied industries. Presentations are limited to thirty minutes in length, including five or ten minutes for questions from the audience. The conference rooms are equipped with audio visual equipment that will accommodate standard computer presentations.

Papers published in the *Broadcast Engineering Conference Proceedings* also will be eligible for consideration for the [NAB Best Paper Award](#). Established in 2010, the Best Paper Award honors the author(s) of a paper of exceptional merit published in the *Proceedings*.

If you have any questions, contact John Marino, VP Science and Technology at 202 429 5346.

2011 NAB Satellite Uplink Operators Training Seminar  
 Instructor: Sidney Skjei, Skjei Telecom  
 October 3-6, 2011 · Washington, D.C. [REGISTER NOW](#)

**NAB Broadcast Engineering Conference Proceedings**  
 A selection of papers from the 2011 NAB Show, with topics including cloud-based technologies, 3DTV and more. [Learn More and Buy >](#)

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