

ABA Engineering Academy "Advanced Engineering Seminar" November 27th – 29th



The **Monday morning session** will cover the modern transmitter facility. Jeff Welton with Nautel will cover the proper design and installation of a transmitter facility along with importance of cable routing and grounding. The care and feeding of Solid state and digital transmitters will be covered in depth. He will offer some tips on how to keep from "blowing things up" at the transmitter site.
jwelton@nautel.com

Monday afternoon session will cover "towers and antennas". Jim Coleman former owner of Southern Broadcast Systems will discuss planning a tower project and the day to day maintenance of the structures.
jimmyw.coleman@gmail.com



After Jim, Dale Ladner with Shively Labs will offer some interesting insights on how FM antennas are designed and how to install properly. Tips on care and feeding of the transmission line and antenna will covered as well.
dladner@shively.com

On Tuesday November 28th the morning session will feature Kirk Harnack with Telos Alliance. He will cover using Audio over IP (AoIP) in today's radio studio including AES67 and audio streaming. Kirk will demonstrate various pieces of equipment and procedures that engineers need to be aware of in making the transition to AoIP.
kirk@harnack.com



After lunch on Tuesday Paul Kriegler with Telos will discuss proper digital audio processing techniques and the latest design in digital audio equipment. Paul will have some interesting stories about the development of audio processors over the years. And will demo the new uMPX which sends a full composite signal via a 320kbps digital bitstream.

Following the Telos demo Mark Johnson with LinkupSatellite, will discuss multi-point audio distribution systems (satellite and terrestrial based). The encoding, transmission and reception with content distribution and localized content insertion also referred to as "store and forward".



Wednesday morning session will feature Jeff Dempsey with Wide Orbit Automation. Jeff will discuss planning, installing and configuration of the modern day radio automation system.
jdempsey@wideorbit.com

This will be followed by a "look under the hood" at Digital Audio Workstations by Larry Wilkins. Discussion will cover selecting and configuring the hardware and software for proper DAW operation. A demo of the some of the most used features of modern DAWs will be offered.
lwilkins@al-ba.com



The seminar will run from 9:00 AM to 4:00 PM each day and we will leave sometime Wednesday afternoon for any wanting to sit for the SBE certification exam. Location is Jefferson State Community College 4600 Valleydale Road, Birmingham AL. Health Science Building, Room 126.

You can register online by [clicking here](#).



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