



The Society of Broadcast  
Engineers and the Nebraska  
Broadcasters Association  
present an

## Ennes Workshop

Wednesday, August 15, 2018  
8 a.m. to 4:30 p.m.

at the  
Lincoln Embassy Suites Downtown  
1040 P St  
Lincoln, NE 68508

### Topics include:

- Radio and Television Transformed
- Tower Safety
- Nex Gen TV
- NEB EAS Plan
- Grounding and Lightning Protection

***lunch is included, sponsored by Broadcasters  
General Store***

*Engineers attending this conference need only  
register through the SBE website. Do not regis-  
ter for this session through the NBA website.*

**Registration: \$25**

**Register by August 6 at  
[sbe.org/education/EnnesNE](http://sbe.org/education/EnnesNE)**

Sponsors



Broadcasters General Store



Society of Broadcast Engineers  
9102 N. Meridian St, Ste 150  
Indianapolis, IN 46260

## What is an Ennes Workshop?

# ENNES

## EDUCATIONAL FOUNDATION TRUST

The Ennes (pronounced "ENN-ess") Workshops were created in 1991 through the Ennes Educational Foundation Trust in an effort to bring affordable education to members locally. The Ennes Educational Foundation Trust, through its Education Foundation Committee, offers periodic workshops and seminars around the United States. These programs feature multiple topics and speakers that provide television and radio engineers with the latest information in broadcast and media technology.

### About the Ennes Educational Foundation Trust

The Harold Ennes Scholarship Fund Trust was initiated by Indianapolis Chapter 25 in 1980 in memory of Harold E. Ennes, author of many textbooks for broadcast and broadcast-related communications training and a member of the Indianapolis chapter. Ennes was a member of the SBE's national Certification Committee and made many contributions to the early development of the Certification Program.

To encourage greater growth, the Scholarship Trust was transferred by Chapter 25 to the SBE national organization to administer in 1981.

Over the years, the purposes of the Trust were expanded. In addition to granting scholarships, the Trust now is involved with the funding and presentation of broadcast engineering-related educational programs, seminars and workshops. It also helps to underwrite costs associated with publishing technical books and manuals.

# SBE Ennes Workshop • Lincoln, NE

August 15, 2018

Planned schedule

Time	Topic/Event	Speaker
8:15 a.m.	<b>Registration Opens</b>	
9:00 a.m.	<b>Introduction</b>	<b>Fred Baumgartner, CPBE, CBNT; Former Trustee, Ennes Educational Foundation Trust</b>
9:10 - 10:05 a.m.	<b>Radio and Television Transformed</b> Things are changing for every broadcaster. These changes will have profound effects on you, and companies like Belden. Clearly, we have to focus on what's coming. For instance, Netflix has announced that they are the largest broadcaster in the world. Now what exactly is a broadcaster? And what should you do about it? If you have an opinion or two, this might be an intense discussion and not just a presentation.	<b>Steve Lampen, CBRE; Consultant, Belden</b>
10:05 - 10:50 a.m.	<b>Tower Safety</b> Learn about the techniques used to evaluate the soundness of deteriorating guyed tower structures, and the engineering and execution of controlled tower drops.	<b>Dave Benco; ERI</b>
10:50 - 11:20 a.m.	<b>Break and Vendor Time</b>	
11:20 a.m. - Noon	<b>Next Gen TV</b> Get an update on ATSC 3.0 test market status, learn about the timeline for implementation, hear the pros and cons to high-powered transmitters, and be updated on the status of receivers and single-frequency networks. You will hear about Advanced Emergency alerting and compare horizontal and circular TX antennas as well as interactive options for local news and local advertising.	<b>Fred Baumgartner, CPBE, CBNT; Former Trustee, Ennes Educational Foundation Trust</b>
Noon - 1:30 p.m.	<b>Sponsored Lunch and Vendor Time</b>	
1:30 - 2:20 p.m.	<b>EAS in Nebraska</b> The session will start with an explanation of EAS as it currently operates, then move on to the creation of the New Nebraska State EAS Plan including the reasoning behind the major changes. Then Rod will give us some insights into plans for the future of broadcast emergency alerting.	<b>Rod Zeigler; Chair, Nebraska SECC DoE, Nebraska Rural Radio Assn (KRVN)</b>
2:20 - 3:10 p.m.	<b>Grounding and Lightning Protection</b> Learn various aspects of facility grounding to reduce potential lightning damage as we review how routing of grounding conductors can improve a device's chance of surviving a transient event, how to lay out a new site or studio to minimize chances of lightning related damage, and discusses improving existing facilities within a budget.	<b>Jeff Welton, CBRE; Nautel</b>
3:10 - 3:40 p.m.	<b>Break and Vendor Time</b>	
3:40 - 4:30 p.m.	<b>Workbench Topics</b> The author of <i>Radio World's</i> popular column, and Telos Alliance Western Regional Radio Sales Manager brings a combination of tips from his column and discusses the conversion to AoIP and what AES67 means to you, the radio and television broadcast engineer. In this session, you will learn useful tips to more efficiently do your job, as well as things to consider when upgrading an analog facility to AoIP.	<b>John Bissett; Telos Alliance</b>

Schedule is subject to change

Register now at [sbe.org/education/EnnesNE](http://sbe.org/education/EnnesNE)