SBE

The Society of Broadcast Engineers presents an

Ennes Workshop

with the

Missouri Broadcaster's Association and the Kansas Association of Broadcasters

Tuesday, August 21, 2018
9 a.m. to 4 p.m.

at the
Hyatt Place Kansas City/
       Overland Park/Metcalf
6801 W. 112th St.
Overland Park, KS 66211

Topics include:
- **Proper Wiring Techniques for Broadcasters**
- **Tower Safety**
- **Grounding and Lightning Protection**
- **Workbench Topics**
- **Cybersecurity/Physical Security**

Registration: $35
lunch is included

Register at
sbe.org/education/EnnesKS

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 ● Overland Park, KS

August 21, 2018

Time	Topic/Event	Speaker
8:15 a.m.	**Registration Opens**	
9:00 a.m.	**Introduction**	**Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE; Texas A&M University – KAMU FM & TV**
9:10-10:05 a.m.	**Proper Wiring Techniques for Broadcasters** What do you know about wiring a facility? What have you forgotten? With all the new cables, formats, and signal types, maybe there are installation guidelines you've never heard! They're all in here.	**Steve Lampen, CBRE; Consultant Belden**
10:05-10:50 a.m.	**Tower Safety** Learn about the techniques used to evaluate the soundness of deteriorating guyed tower structures, and the engineering and execution of controlled tower drops.	**Dave Benco; ERI**
10:50-11:10 a.m.	**Break**	
11:10 a.m.-12:30 p.m.	**Cybersecurity/Physical Security** Cybersecurity is no longer an option as exploit attempts frequently target broadcast facilities. It is essential that the broadcast engineer understand the foundation of creating a secure network infrastructure. In this presentation, you will learn the principals behind a secure network environment and outline best practices to implement in a practical manner.	**Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE; Texas A&M University – KAMU FM & TV**
12:30-1:30 p.m.	**Lunch**	
1:30-2:30 p.m.	**Grounding and Lightning Protection** Learn various aspects of facility grounding to reduce potential lightning damage. This presentation reviews 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 how to improve existing facilities within a budget.	**Jeff Welton; Nautel**
2:30-2:45 p.m.	**Break**	
2:45-4:00 p.m.	**Workbench Topics** The author of *Radio World*'s popular column and Telos Alliance Western Regional Radio Sales Manager John Bisset, will bring a combination of tips from his column and discuss the conversion to AoIP and what AES67 means to you. 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.	**John Bissett; Telos Alliance**